DO NOT SORT THIS PAGE - MAGAZINES ARE LISTED IN YEAR AND MONTH ORDER

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1987 August	Densor Sensor	density	4-8
AIMS magazine	1987 August	Sharing Birthdays	birthdays, probability	4-8
AIMS magazine	1987 August	Teddy Bear dresses for Summer!	permutations	K-2
AIMS magazine	1987 September	Leaf Facts Scavenger Hunt	needles, leaves, scavenger hunt, observation, identification	3-6
AIMS magazine	1987 September	One Potato, Two . . .	potato, 3D regions	5-9
AIMS magazine	1987 September	Pumpkin Caper	pumpkins, graphing	1-3
AIMS magazine	1987 October	Aluminum Foil Boats	observation, foil boats, float	6-9
AIMS magazine	1987 October	Goo Yuck	liquid/solid, properties of matter, graphing observation	2-8
AIMS magazine	1987 October	Moving Raindrops in the Water	water cycle	2-6
AIMS magazine	1987 October	Teddy Bears Fight Pollution	pollution	1-2
AIMS magazine	1987 November	Moving Water	water cycle, evaporation, condensation	2-4
AIMS magazine	1987 November	Rock 'N Rule	properties, rocks, observation, Venn diagram	2-6
AIMS magazine	1987 December	Magnetic Attraction	magnets	3-6
AIMS magazine	1987 December	Super Tuber	potato, observation, graphing	K-2
AIMS magazine	1988 January	Fun Fruits	graphing,	2-4
AIMS magazine	1988 January	Heartbeats and Pendulums	pendulums, Huggens Principle	5-9
AIMS magazine	1988 February	Wings and Webs	insects, spiders, observation	3-6
AIMS magazine	1988 March	Strangely Odd	sequences, patterns	5-9
AIMS magazine	1988 April	Face to Face	magnets	1-2
AIMS magazine	1988 April	Magic Square Madness	magic squares	5-9
AIMS magazine	1988 May/June	Make A Thermometer	thermometer	3-8
AIMS magazine	1988 May/June	Pick-Up Sticks	Button, Needle Drop, Pi, Project Math	5-9
AIMS magazine	1988 May/June	Russian Peasant Method of Multiplication	Russian Peasant Multiplication	5-9
AIMS magazine	1988 May/June	Square Patterns	square patterns, functions	5-9
AIMS magazine	1989 July/August	Proportionality: Part VI Another Look at Equivalent Fractions	proportionality, fractions, dot paper	5-9
AIMS magazine	1989 September	Make A Kaleidoscope	kaleidoscope	4-8
AIMS magazine	1989 September	My Rock	rocks, properties, mass	3-6
AIMS magazine	1989 September	Proportionality: Part VII Percent	proportionality, percents	5-9
AIMS magazine	1989 September	Waves	waves, sine curve	8+
AIMS magazine	1989 October	Peter's Prize-Winning Pumpkin Patch	puzzle, pumpkin	4-6
AIMS magazine	1989 October	Harriet's Halloween Treats	Halloween, problem solving, attributes	K-3
AIMS magazine	1989 October	Who is Tallest?	logic	1-2
AIMS magazine	1989 November	Rock Houndsand Bears	rocks,mass,measurement	1-3
AIMS magazine	1989 November	Dino-Sort	dinosaurs, classification	2-5
AIMS magazine	1989 November	Rock Hounds	rocks, measurement, mass	1-3
AIMS magazine	1989 December	Going Shopping	logic, money, change	2-6
AIMS magazine	1989 December	How Many Teddy Bears in the Woods:	estimation, population, capture-release, ratio, decimal	4-6
AIMS magazine	1989 December	Nocturnal Hunter	owl, owl pellets, noncturnal	4-8
AIMS magazine	1989 December	Sorting Seeds	seeds, sorting	2-4
AIMS magazine	1989 December	The Wheels Shop	wheels, logic	4-8
AIMS magazine	1990 January	Lumbericus terrestrics	earthworms, soil	3-6
AIMS magazine	1990 January	My Shoe		
AIMS magazine	1990 January	Seeds Travel	seed, disposal	2-6
AIMS magazine	1990 January	The Wheels Emporium	logic puzzle	4-8
AIMS magazine	1990 February	External Structures		
AIMS magazine	1990 February	Lucky Numbers	Lucky Charms, February, Irish, shapes, number sense, graphing, patterns, problem solving, estimation, graphing	1-3
AIMS magazine	1990 February	Reflections on Geo-Panes	3D, soap, toothpicks, faces, edges, vertices	3-8
AIMS magazine	1990 February	The Quest for the Speed of Light	earthworths, reaction	
AIMS magazine	1990 February	The Seed Within	seeds, fruits, vegetables	2-4

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1990 March	Bears Afloat	boat, buoyancy, water	3-8
AIMS magazine	1990 March	Chipping Away	mining, sandstone, John Muir	4-6
AIMS magazine	1990 March	Galileo And The Pendulum	Galileo, pendulum	5-9
AIMS magazine	1990 March	Mirror, Mirror On the Wall	mirror, reflection, graphing, ratios	4-8
AIMS magazine	1990 March	Observing Bulbs	observe plant reproduction	4-8
AIMS magazine	1990 April	The Earth's Largest Magnet	Earth magnetic poles, compass	5-8
AIMS magazine	1990 April	Reflections of a Penny	reflection, mirrors	5-9
AIMS magazine	1990 April	Stick To It	magnets	K-1
AIMS magazine	1990 April	The Teddy Bears Visit Hawaii	logic, puzzle	3-?
AIMS magazine	1990 May/June	Ahlewus	probability	4-8
AIMS magazine	1990 May/June	Benjamin Franklin, the Scientist	Ben Franklin	4-9
AIMS magazine	1990 May/June	Heat Moves	heat conduction	1-3
AIMS magazine	1990 May/June	A Pair of Chutes	parachutes, bears, problem solving, gravity	4-9
AIMS magazine	1990 May/June	Static Strokes	static electricity	2-6
AIMS magazine	1990 May/June	The Disease X Crises	probability, statistics, blood born diseases	4-8
AIMS magazine	1990 July/August	The Disease X Dilemma	blood borne disease,probability,sorting, classification	5+
AIMS magazine	1990 July/August	Student Made Measuring Tools	tools, measurement	K-9
AIMS magazine	1990 July/August	Surf 'n Sand	Earth, probability, land, water	5-9
AIMS magazine	1990 September	All Around the Apple	apples, measurement, fractions	K-2
AIMS magazine	1990 September	Bunches of Lunches	sorting, classifying, lunch boxes	K-2
AIMS magazine	1990 September	Mass and Weight	matter, gravity, mass, weight, metric, gram	4-6
AIMS magazine	1990 September	The Pythagorean Relationship-Part 1	Pythagorean Theorem	5-9
AIMS magazine	1990 October	Mystery Mountain	contour maps	5-9
AIMS magazine	1990 October	Pencil Ponderings	inquiry, science, process	K-8+
AIMS magazine	1990 October	The Pythagorean Relationship-Part II	Pythagorean Theorem, proofs	5-9
AIMS magazine	1990 November	Mobius Strips Revisited-Making the Connections	Mobius Strips	5-9
AIMS magazine	1990 November	Peanut Butter and Jelly Geology	peanut butter, geology	3-8
AIMS magazine	1990 November	Similarity: Building The Concept Part I	similarity pantograph	5-9
AIMS magazine	1990 November	Who's Right?	heredity, classification, statistics, data, dichotomous, key, Venn diagram graphs	3-8
AIMS magazine	1990 December	Cold Tin and Hot Hands	heat, air expansion, bubbles	K-8
AIMS magazine	1990 December	Holding Power	magnets	2-6
AIMS magazine	1990 December	Similarity: Building The Concept Part II	similarity, scale, factor	5-9
AIMS magazine	1991 January	Euler-the Bridge to Topology	Euler, networks, topology	5-9
AIMS magazine	1991 January	Fish and Clips	fish, magnets, graphing	2-4
AIMS magazine	1991 January	Similarity: Applying The Concept Part III	similarity, scale, factor	5-9
AIMS magazine	1991 February	Pascal-the Father of the Computer Age	Pascal	5-9
AIMS magazine	1991 February	Similarity: Applying The Concept Part IV	similarity	5-9
AIMS magazine	1991 February	Through It All	magnets, number, sense	2-4
AIMS magazine	1991 February	Fermat - The Marginal Mathematician	prime, Fermat, squares	5-9
AIMS magazine	1991 March	It Floats! It Sinks!	density, volume, mass	5-8
AIMS magazine	1991 March	Orange's Life Jacket	density, oranges	4-8
AIMS magazine	1991 March	Reaction Countdown	ruler, drop, reaction, metric	5-9
AIMS magazine	1991 March	Sea Shells are Special	sea shells, classify	2-6
AIMS magazine	1991 March	Tiling and Similarity	tessalations	5-9
AIMS magazine	1991 March	What's the Attraction?	magnets, magnetism, attraction, repulsion	4-8
AIMS magazine	1991 April	A Teeter-Totter Discovery	archimedes, teeter-totter	5-9
AIMS magazine	1991 April	Frog Leaps and Lily Pad	frogs, lily pads,	K-2
AIMS magazine	1991 April	Path Finders	electricity, circuits, light bulb	4-8
AIMS magazine	1991 May/June	Cubes Face to Face: Building Spatial Sense	spatial, sense, cubes, pentominoes	4-8
AIMS magazine	1991 May/June	The Penny Sort & Nickel Dates	statistics, economics, pennies, nickels	4-8
AIMS magazine	1991 May/June	Using History of Mathematics in the Classroom Fibonacci--The Mathematical Blockhead?	Fibonacci, hindu-arabic, numerals	5-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1991 July/August	A Crazy Colloid	chemistry, states of matter, colloids, classifying, measuring, observations	4-8
AIMS magazine	1992 July/August	Inside a Bat	bat, wing structure	2
AIMS magazine	1992 July/August	Spatial Visualization Activities, Part 3	Isometric drawings	5-9
AIMS magazine	1992 July/August	The Wheels on the Bus Go 'Round and 'Round	logic, problem solving	1-2
AIMS magazine	1992 July/August	Using History of Mathematics in the Classroom Early Chinese Mathematics	China, magic squares, sticks	5-9
AIMS magazine	1992 September	An Ear of Indian Corn	plants, seeds, Indian Corn, plant growth	3-6
AIMS magazine	1992 September	Thinkcard 9	Isometric cubes, views	5-9
AIMS magazine	1992 September	Using History of Mathematics in the Classroom Hindu Mathematics: Pearls Among The Pebbles	Hindu Math	5-9
AIMS magazine	1992 October	Just Between Bats	bats, venn diagram	3-6
AIMS magazine	1992 October	Observing Bulbs	bulbs, observation	K-3
AIMS magazine	1992 November	Cones and Needles	pinecones, observation	3-6
AIMS magazine	1992 November	Mealworms Under Glass	Mealworms, observation, life cycles	4-8
AIMS magazine	1992 November	Melt an Ice Cube	ice cube, observation, melting, temp	1-4
AIMS magazine	1992 November	Super Gourd	gourds, circumference, mass, measurement	2-4
AIMS magazine	1992 November	The Scarecrow	logic, scarecrow	1-3
AIMS magazine	1992 November	The Snowflake Curve	Snow flakes, perimeter, area	5-9
AIMS magazine	1992 November	Using History of Mathematics In The Classroom Sonya Kovalevsky Daring and Determined	Kovalevsky	5-9
AIMS magazine	1992 December	Cereal Logic	logic	4-8
AIMS magazine	1992 December	Cereally Speaking	nutrition, ratio, percent, decimals, graphing	4-8
AIMS magazine	1992 December	Shape Search	senses, touch,classifying, geometry	K-1
AIMS magazine	1992 December	Using History of Mathematics In The Classroom Babbage: Making A Difference	Babbage	5-9
AIMS magazine	1993 January	The Frustrated Farmer	farmer, puzzle	K-6
AIMS magazine	1993 January	Gearing Up…Gears	gears, simple machines, teeth & turn ratio, gear & tooth	4-10+
AIMS magazine	1993 January	Secret Sounds	sounds, senses, hearing, sealed boxes, predicting, data collection, problem solving, human	K-3
AIMS magazine	1993 January	Spread Your Wings	bats, wings, microbat, megabat, place value	3-6
AIMS magazine	1993 January	Using History of Mathematics in the Classroom Ada Byron Lovelace The First Computer Programmer	Ada Lovelace, GCD, LCM	5-9
AIMS magazine	1993 February	Cat Scan	cats, bar graph, circle graphs, Venn diagrams, binary tree diagram	K-6
AIMS magazine	1993 February	Crystal Caverns	crystals, stalagmites, stalagmites, caves	4-8
AIMS magazine	1993 February	The Perplexing Pyramid	tree, twigs, measurement, observation,	K-6
AIMS magazine	1993 February	A Twig's Story	observing, collecting/recording data, comparing, ordering, relating	4-9
AIMS magazine	1993 March	Bubbling into Math	bubbles, measurement	K-3
AIMS magazine	1993 March	Hypatia: Model of Excellence	eclipse, hypatia	4-10+
AIMS magazine	1993 March	Lenses and Ladybugs	insects, ladybugs, hand lens, graphing, anatomy habitat, ladybird beetles, data collection	K-3
AIMS magazine	1993 March	One Good Turn Deserves Another	simple machines, spools, wheels and belts, estimation	3-8
AIMS magazine	1993 March	Quick Quilts	geometry, quilting, symmetry	4-8
AIMS magazine	1993 March	Square Discoveries	magic squares	5-9
AIMS magazine	1993 April	A Bear Eggs-pedition	eggs, balances, mass, estimation, bears, problem solving	K-4
AIMS magazine	1993 April	Are All Sides Equal?	fish, auto, rotation, symmetry, measurement flight path	2-6
AIMS magazine	1993 April	Calendar Capers	Calendar math	5-9
AIMS magazine	1993 April	Flying Fish	observing, collecting and recording data, identifying and colrolling variables	5-9
AIMS magazine	1993 April	Sandpile	sand, observation, magnification, data collection	K-3
AIMS magazine	1993 April	Save the Wumpus!	logic , mapping, deduction, game, endangered animal	4-8

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1993 April	Snail Song	snail song	K-3
AIMS magazine	1993 April	Using History Of Mathematics In The Classroom Benjamin Banneker: Self-Taught Genius	Benjamin Banneker	5-9
AIMS magazine	1993 May/June	Air is Wrapped Around Our Planet	air, song, atmosphere, layers	K-12
AIMS magazine	1993 May/June	Cactus	plants, cactus, observation	K-3
AIMS magazine	1993 May/June	Friday Math	bears, boxes, paper folding	
AIMS magazine	1993 May/June	Magic Flexagons	flexagon	4-10+
AIMS magazine	1993 May/June	Nuts and Bolts	screws, nut & bolt, simple machines, measurement	4-8
AIMS magazine	1993 May/June	A Pig's Tale	3 little pigs, game, number sense	K-3
AIMS magazine	1993 May/June	Popped. . . Or Not	popcorn, mass, balance, bears	1-2
AIMS magazine	1993 May/June	Using History of Mathematics In The Classroom Emmy Noether: Changing The Face of Algebra	Magic flexagon, Emmy Noether	5-9
AIMS magazine	1993 July/August	Aristotle: The Walking Encyclopedia	Aristotle	5-9
AIMS magazine	1993 July/August	Cookies for All	The Doorbell Rang, cookies, sharing, fractions	K-3
AIMS magazine	1993 July/August	Flipping Fish	fish, toothpicks, symmetry, reflection	K-3
AIMS magazine	1993 July/August	The Marbleous Rolls	marbles, acceleration, deceleration, median, mean, range, inclined plane, line graph	4-8+
AIMS magazine	1993 July/August	Noses for Nectar	nectar, bats, pollination, plants, time, problem solving	K-3
AIMS magazine	1993 July/August	Thoughts About Thinking	thinking skills	4-8
AIMS magazine	1993 September	An Area Model for Solving Probability Problems	geometric probability, area model	5-9
AIMS magazine	1993 September	Clouds	clouds, song, cirrus, stratus, cumulus	K-4
AIMS magazine	1993 September	Descartes Father of Analytic Geometry	Descartes, area	5-9
AIMS magazine	1993 September	Give Me An Indication	Ph indicators, acid, base, cabbage juice	4-8+
AIMS magazine	1993 September	Peeking at Patterns	senses, patterns, sight, observation, graphing	K-1
AIMS magazine	1993 September	Stars in the Milky Way Galaxy	Milky Way, estimation, stars, statistics, mean, median, range	4-8
AIMS magazine	1993 September	Thoughts About Thinking	thinking skills, graphing, organizing	4-8+
AIMS magazine	1993 September	Washers and Dryers	dehydration, evaporation, apples, mass, time, volume	K-3
AIMS magazine	1993 October	A Pumpkin Cover Up	pumpkin, song, estimation, grouping, counting, popcorn	K-3
AIMS magazine	1993 October	Sandy Beaches	sand, beach, ocean, erosion, breakwater, barriers, currents, water	4-8+
AIMS magazine	1993 October	Shapes 4 Us: A Preview of a Paradox	mathematical circles	5-8
AIMS magazine	1993 October	Thoughts About Thinking	thinking, organizing, graphing, problem solving	6-8+
AIMS magazine	1993 October	A Timely Rap	earth, sun, time, rap, rotation	4-8
AIMS magazine	1993 October	Tinkering , Toys & Teaching	shapes	4-8
AIMS magazine	1993 October	Where Do You Draw the Line?	water line, volume, density, ship, cargo	4-8+
AIMS magazine	1993 October	Wrap Around the Clock	sun, clock, daylights, rotation, revolution	K-2
AIMS magazine	1993 November	Citizens of the Sea	eel, song, hermit crab, ocean, starfish, shark, seahorse, squid	3-8
AIMS magazine	1993 November	Eager Weavers	patterns, weaving	3-8
AIMS magazine	1993 November	Maria Agnes! Which "Witch" is Which?	functions	5-9
AIMS magazine	1993 November	Sizing Up Shadows	light, shadows, measurement	3-6
AIMS magazine	1993 November	Thoughts About Thinking	diagrams, sequence, organizing, graphs, classify, compare, contrast	K-8
AIMS magazine	1993 December	The Food Chain of the Pond	song, food chain, water lilies, water bugs, frogs, snake, hawk	K-4
AIMS magazine	1993 December	A Gem of An Experience	crystals, observing	3-8
AIMS magazine	1993 December	Picking Apart Patterns	graphing, unify, tubes, patterns	K-4
AIMS magazine	1993 December	Power-Packed Circles	John Venn, Venn diagram, problems	4-6
AIMS magazine	1994 January	Albert Einstein: The Human Side	Albert Einstein	4-6
AIMS magazine	1994 January	A Fish Story, More or Less	fish, greater than, less than, more	K-1
AIMS magazine	1994 January	Once Upon a Time	data, timeline, organizing	K-2
AIMS magazine	1994 January	Palindromic Ponderings	palindromes	3-9
AIMS magazine	1994 January	Square Stumper	squares, circles, puzzles	3-9
AIMS magazine	1994 January	The Tub That Spilleth Over	water, displacement, graphing	K-1
AIMS magazine	1994 January	Winding Wheels	graphs, wheels, gear	5-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1994 January	Winding Wheels	gears, wheels, Lego's, measurement	3-6
AIMS magazine	1994 February	Charles Dodgson Mathematician In Wonderland	Charles Dodgson, Alice in Wonderland	5-9
AIMS magazine	1994 February	Counting on One Hundred	construct number meanings, make/use measurement in problems	5-9
AIMS magazine	1994 February	Meter Readers	electric meters, electricity, watts, kilowatt hours,	4-8
AIMS magazine	1994 February	The Rate of Decay	decay, radioactivity, half-life	4-8
AIMS magazine	1994 March	Getting It Together	thaumatrope	3-6
AIMS magazine	1994 March	Is the Square Number a Winner?	patterns, squares	5-9
AIMS magazine	1994 March	Mary Somerville The Queen of 19th Century Science	Mary Somerville, rectangles, squares, patterns, diagonals	K-16
AIMS magazine	1994 March	Rainwater Tea	volume, rainwater, stemation	K-1
AIMS magazine	1994 March	Space Base Three	base 3, grouping, astronauts, shuttles	3-6
AIMS magazine	1994 March	Teddy Bear Magic Cards	Teddy Bear, magic, functions	3-8
AIMS magazine	1994 April	Eggsploration Station	eggs, reasoning, observation, Easter, number sense, mass, volume, length, estimation	K-1
AIMS magazine	1994 April	Fraction Time	clock, equivalent, fractions	K-4
AIMS magazine	1994 April	George Polya Father of Problem Solving	George Polya, problem solving	5-9
AIMS magazine	1994 April	Knee Deep In Dandelions	dandelions, graphing, estimation	3-6
AIMS magazine	1994 April	Mathematics as the Study of Patters Pair Product Patterns	products, patterns	5-9
AIMS magazine	1994 April	Side by Side	rectangles, perimeter, area	5-9
AIMS magazine	1994 April	Squid Skid	squid, predator	3-8
AIMS magazine	1994 May/June	Centerville, USA	center of gravity, balance, coordinates	4-8
AIMS magazine	1994 May/June	Counting Quadrilaterals	quadrilaterals, patterns	5-9
AIMS magazine	1994 May/June	Goffttfried Wilhelm Leibniz The Universal Genius	Leibniz, harmonic triangle	5-9
AIMS magazine	1994 May/June	Goldfish Gulps	fish, aespiration, graphing	3-6
AIMS magazine	1994 May/June	Lighten Up	energy, light bulb, electricity, conservation	3-6
AIMS magazine	1994 May/June	Making Ten, My Way	counting, number sense, grouping,	K-1
AIMS magazine	1994 May/June	Mathematics, the Search for Patterns It All Adds Up!	patterns, cubes	5-8
AIMS magazine	1994 May/June	Mathematics: The Science of Patterns	patterns, science	5-9
AIMS magazine	1994 May/June	Simple Machines	song, machines, simple, lever, inclined, plane, screw, axle, pulley	K-8
AIMS magazine	1994 May/June	Triple Cross	lines, triangles	5-9
AIMS magazine	1994 July/August	Bungee Rockets	rockets, weight, force, simple machines, aerodynamics	K-8
AIMS magazine	1994 July/August	A Bus For Us	bus, game, patterns	K-2
AIMS magazine	1994 July/August	Fibonacci Numbers Revisited	Fibonacci, patterns	5-9
AIMS magazine	1994 July/August	High Wire Acts	center of gravity, comparing	3-6
AIMS magazine	1994 July/August	It's a Square Deal!	squares. Surface area, patterns, diagonals, volume, perimeter	5-9
AIMS magazine	1994 July/August	Niels Henrik Abel Overlooked Genius	modular arithmetic, Abel, clock arithmetic	5-9
AIMS magazine	1994 July/August	Paper Pinchers	origami, squares, area	5-9
AIMS magazine	1994 July/August	Poking Fun	balloons, needles, magic trick	3-9
AIMS magazine	1994 July/August	Squarely Constructed	squares, puzzles	5-9
AIMS magazine	1994 July/August	Twenty-4 Square	perimeter, area, functions	3-8
AIMS magazine	1994 September	Building Boxes	surface area, volume, polyhedron	3-8
AIMS magazine	1994 September	Charting the Ocean Depths	oceanography, ocean floor, measurement	4-8
AIMS magazine	1994 September	Exploring Isoperimetric Figures	maximum area, isoperimetric figures, polygons	5-9
AIMS magazine	1994 September	Foursome Fun	squares, size, patterns	4-8
AIMS magazine	1994 September	Humpback Habits	lunging, humpback whales, bubble netting	
AIMS magazine	1994 September	Look At Me Now!	growth, measurement	K-2
AIMS magazine	1994 September	Unexpected Connections	patterns, golden ratio	5-9
AIMS magazine	1994 September	The Up and Down Staircase	patterns, cubes	5-9
AIMS magazine	1994 October	Can-Sealed Circuits	circuits, reasoning, electricity, inference	4-8
AIMS magazine	1994 October	The Flight of Stairs	patterns, cubes	5-9
AIMS magazine	1994 October	Mathematics: The Science of Patterns	gears, patterns, Froebe Blocks,	K-16

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1994 October	Pattern of Nature	pattern nature,	4-8
AIMS magazine	1994 October	The Sun's Autograph	Sun, analemma, figure 8	5-9
AIMS magazine	1994 October	A Time of Their Own	life cycle, moths, butterfly	3-6
AIMS magazine	1994 October	Trickle Down Theory	soils, infiltration, erosion	3-8
AIMS magazine	1994 November	Crazy Over Cranberries	cranberries, measurement, Thanksgiving	3-6
AIMS magazine	1994 November	Fat Finders	fat, health, nutrition,	4-8
AIMS magazine	1994 November	A Handy Timepiece	sun, shadow, time, sundial	4-8
AIMS magazine	1994 November	The Hidden Staircases	cubes	5-9
AIMS magazine	1994 November	Hurkle Hide and Seek	hurkle, ordered pairs	3-8
AIMS magazine	1994 November	Patterns of Nature	patterns, nature, sphere,	4-8
AIMS magazine	1994 November	Protozoan a Goin'	protozoan, microorganisms, microscope, parametium, rotifer	4-8
AIMS magazine	1994 December	The Expanding Rectangle	surface area, volume, rectangle,prism,patterns	5-9
AIMS magazine	1994 December	I'm Stuck on You	frogs, toads, lizards, food chain	4-8
AIMS magazine	1994 December	Mathematics: The Science of Patterns Depth of Understanding Through Patterns	patterns, sequences	5-9
AIMS magazine	1994 December	Mobius Bands	mobius band,	4-8
AIMS magazine	1994 December	Sand Dunes and Snow Drifts	sand dunes, snow drifts, erosion, wind	4-6
AIMS magazine	1994 December	Santa's Ladder	Santa, Christmas, ladder, integers	3-5
AIMS magazine	1994 December	Taking Turns with Triangles	triangles, tiling,tesselation	5-9
AIMS magazine	1994 December	Tinkering , Toys & Teaching	discrete math, race cars, tree diagrams	5-9
AIMS magazine	1995 January	Astro-Logic	logic, astronauts, sequencing	3-6
AIMS magazine	1995 January	The Expanding Square	square, patterns, volume, surface area	5-9
AIMS magazine	1995 January	Folding Power	folding paper	5-9
AIMS magazine	1995 January	Paper-A Pressing Issue	paper, recycling	4-8
AIMS magazine	1995 January	Pasta Parrallels	Earth, suns rays, tilt, axis, spatial sense, seasons, climate zones	4-8
AIMS magazine	1995 January	Patterns of Nature	patterns of nature, veins, trees, branching	K-12
AIMS magazine	1995 January	Puddle Pushers	water cycle, evaporation, length, area, time, estimation, states of matter	2-5
AIMS magazine	1995 January	A Sign of the Times	recycling, graphing,	4-8
AIMS magazine	1995 February	Drying On the Line	evaporation, time, water cycle, observation	3-6
AIMS magazine	1995 February	Patterns of Nature	patterns in nature	K-12
AIMS magazine	1995 February	Pillars of Strength	length, geometry, structures, estimation	3-8
AIMS magazine	1995 February	Rock Groups	rocks, properties, length, mass, patterns	3-8
AIMS magazine	1995 February	What's In A BB?	density, BB, mass, volume	4-8
AIMS magazine	1995 March	About Time for Food	health, nutrition, food, estimation, breakfast	2-6
AIMS magazine	1995 March	All's Well that Works Well	wheel & axle, simple machine, construction	3-6
AIMS magazine	1995 March	Lenses and Ladybugs	habitat, ladybugs, microscope, insect, anatomy, graphing	K-3
AIMS magazine	1995 March	Picturing a Dichotomy	classification, human body, traits, graphs	3-8
AIMS magazine	1995 March	A Pleasant Surprise	patterns, prisms, surface area, volume	5-9
AIMS magazine	1995 March	Sink or Swim	density, float, sink, graph, water displacement, volume	4-6
AIMS magazine	1995 April	Food Chains and Webs	food web, food chain, food energy	3-6
AIMS magazine	1995 April	Mathematics, the Search for Patterns Cubes, Squares, and Rows	patterns, surface area, volume	5-9
AIMS magazine	1995 April	Rings n' Strings	magic trick, ring strings	5-9
AIMS magazine	1995 April	Ship Wrapped	area, boats, design, length, volume, speed, symmetry force & motion	4-8
AIMS magazine	1995 April	What's Hot and What's Not	thermometer, heat energy, temperature, song	K-3
AIMS magazine	1995 May/June	Hang Gliding	aerodynamics, gliders, flight, gravity, drag, Newton's Laws, motion, ratio, angle, littenthal	4-8

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1995 May/June	Hanging in the Balance	mobile, balance, center of gravity, lever, linear,	3-8
AIMS magazine	1995 May/June	Head Hunter	decimal, human body, proportions, statistics, height, skelton, ration	6-8
AIMS magazine	1995 May/June	Lead Feet	center of gravity	K-12
AIMS magazine	1995 May/June	Life in Glass Houses	protests, microscope, aquarium	3-8
AIMS magazine	1995 May/June	Lost in Space	space, puzzle, astronauts	4-8
AIMS magazine	1995 May/June	Magniviewer	microscope, convex lenses, magnifiers	K-3
AIMS magazine	1995 May/June	Mathematics, the Search for Patterns Cubes, Squares, and Rows Again!	patterns, surface area, volume	5-9
AIMS magazine	1995 May/June	Pop Out Patterns	hexagon, rhombrus, geometry, patterns, classifying , spatial, visualization	4-8
AIMS magazine	1995 July/August	An All-Around Day	sequencing, patterns, time, day, week, unifix cubes	K-1
AIMS magazine	1995 July/August	A Fork in the Road	matter, network, patterns, angles, geometry	3-8
AIMS magazine	1995 July/August	Glow With The Flow	light rays, water properties	4-8
AIMS magazine	1995 July/August	A Special Plot	habitat, plants, animals	3-6
AIMS magazine	1995 July/August	A Tall Fall	eggs, logic, force & motion, construction	2-6
AIMS magazine	1995 July/August	Tints and Temps	car color, temperature, heat & energy, thermometer	3-8
AIMS magazine	1995 September	Can It Matter?	states of matter, solids, liquids, gas, predicting, classifying	K-2
AIMS magazine	1995 September	Make Room for Me!	alcohol, water, matter, volume, graphs	3-8
AIMS magazine	1995 September	The Pickle Jar	elodea, daphnia, cyclops, hydra, smails, observations,	4-8
AIMS magazine	1995 September	Pockets	pockets, counting, one to one, number sense,	K-2
AIMS magazine	1995 September	Tangrammy Squares	fractions, tangram, area, problem solving	3-6
AIMS magazine	1995 September	Tinkering , Toys & Teaching	pond water, microworld, Daphnia, Elodea	3-8
AIMS magazine	1995 September	Turn Around	simple machines, gears, Lego's	3-8
AIMS magazine	1995 September	Weather Watch	weather, graph, patterns, line graph, wind graph	3-8
AIMS magazine	1995 September	When the Planets Go Spinning Around	planets, space, song	K-12
AIMS magazine	1995 October	Click, Click, Who's There:	echolocation, bats, time, maze	4-8
AIMS magazine	1995 October	Exploring Rectangles	rectangles	5-9
AIMS magazine	1995 October	Heads n' Tails	ponies, puzzle	5-9
AIMS magazine	1995 October	It's a Snap!	chains, money, bracelet, puzzle	5-9
AIMS magazine	1995 October	Massing About with Bats	megabats, microbats, mass, diversity	3-6
AIMS magazine	1995 October	Science on the Slide	friction, slide, inclined plane, force, motion	3-6
AIMS magazine	1995 October	Sizing Up Sails	boats, wind energy, geometry, variables	4-8
AIMS magazine	1995 October	Tinkering , Toys & Teaching	craters, conservation of energy, moon	4-8
AIMS magazine	1995 October	What's the Net Worth?	rainforest, diversity, trees, food webs, percent	4-8
AIMS magazine	1995 November	Cranberries to Craisins	cranberries, dehydration, counting, estimation, mass	K-4
AIMS magazine	1995 November	Going to the Bog	cranberries, bog, song	K-3
AIMS magazine	1995 November	Icebergs	density, water, ice, states of matter, volume, mass	4-8
AIMS magazine	1995 November	Look Out Below!	matter, fluids, Rayleigh-Taylor instability, area, volume, angle	4-8
AIMS magazine	1995 November	Mathematics, the Search for Patterns A Solid Experience	Isometric, drawings	5-9
AIMS magazine	1995 November	Pick Pockets	dichotomous key, classification	K-3
AIMS magazine	1995 November	Scatter Beans	game, counting, Native American, beans	K-6
AIMS magazine	1995 December	Another Solid Experience	Isometric, drawings	5-9
AIMS magazine	1995 December	The Flame Game	flame, ignition point	K-12
AIMS magazine	1995 December	Fold to Hold	construction, geometry, volume, boxes, folding	2-8
AIMS magazine	1995 December	Learning About Lungs	respiration system, lungs, breathing, human body	2-6
AIMS magazine	1995 December	Oranges-For the Most Part	decimal, fractions, oranges, proportion, mass, data	4-6
AIMS magazine	1995 December	Snow Job	water cycle, snow, water content, weather, mass, volume	2-6
AIMS magazine	1995 December	What's My Line?	bottles, volume, height, graphing,	4-8

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1996 January	Busy with Buses	school bus, safety, shapes, measurement, geometry	K-4
AIMS magazine	1996 January	Level the Lever	lever, unifix cubes	5-9
AIMS magazine	1996 January	Magic String	gear train, gears, simple machines, conservation of energy	3-8
AIMS magazine	1996 January	Straws Take a Stand	straws, cubes	5-9
AIMS magazine	1996 January	Water Wheels	design, water wheel, technology, wheel & axle, energy, mass	2-4
AIMS magazine	1996 February	Ironing Out the Wrinkle in Time	cubes,toothpicks, raisins	5-9
AIMS magazine	1996 February	Oh, My Stars	properties of water, observations	3-8
AIMS magazine	1996 February	Plant Food	plant food, human body, nutrition, decimal, graph	4-8
AIMS magazine	1996 February	Shape Weavers	heart, weaver	3-5
AIMS magazine	1996 February	The Heart Breaking Puzzle	puzzles, hearts	5-9
AIMS magazine	1996 March	Facing Up to the Moon	moon phases, astronomy model	4-8
AIMS magazine	1996 March	Patterns, Problem Solving, and Practice	patterns, multiplication, factors	3-9
AIMS magazine	1996 March	Soil Tables	soil, volume, time, infiltration, percolation	4-8
AIMS magazine	1996 March	The Wind Blows	wind measurement	K-2
AIMS magazine	1996 April	Back Talk	classification, dichotomous key, polygons, animals	4-8
AIMS magazine	1996 April	Building A Simple Berlese Funnel	berlese funnel, insects	
AIMS magazine	1996 April	Eggs Over All	eggs, reasoning, observation	4-8
AIMS magazine	1996 April	Maximizing Math:: Looking for a Liter	volume, Metric Units	5-9
AIMS magazine	1996 April	McGregors Garden	spatial, garden, logic	K-1
AIMS magazine	1996 April	Patterns and Analogies Uncover Integer Secrets	patterns, arrays	5-9
AIMS magazine	1996 April	Recognizing and Building Proportional Relationship	patterns, proportional reasoning	5-9
AIMS magazine	1996 April	Steppin' Up and Over	area, number sense	5-9
AIMS magazine	1996 April	What's the Skinny?	human body, skin	K-4
AIMS magazine	1996 July/August	Casing the System	osmosis, digestion, food, nutrition	4-6
AIMS magazine	1996 July/August	Made by Nature and Made by Me !	technology, natural, manmade	K-4
AIMS magazine	1996 July/August	Peddle the Metal	jewelry, mass, money	3-6
AIMS magazine	1996 July/August	Talk About Time	time, day & night, clock	K-3
AIMS magazine	1996 July/August	Toothpick Teasers	squares, toothpicks, brainteaser	5-9
AIMS magazine	1996 September	Airport Quest	airport questions	3-8
AIMS magazine	1996 September	Beetle Mania	beetle, insects, body parts	3-8
AIMS magazine	1996 September	Getting the Hang of It	balance, mass, technology	2-4
AIMS magazine	1996 September	Making The Balance	balance, bees, elephants	
AIMS magazine	1996 September	Patterns, Problem Solving, and Practice	circle, diameter, circumference	4-8
AIMS magazine	1996 September	Time Trials	speed, cars, measurement, graphing	3-8
AIMS magazine	1996 October	Advantages of a Pattern-Based Math/ Science Curriculum	density, fish	K-12
AIMS magazine	1996 October	Fallen Leaf	decomposition, leaf, observation, life cycle	K-4
AIMS magazine	1996 October	Shape Takers	geometry, shapes, observation	K-1
AIMS magazine	1996 October	Skip to My Rule	flower garden, multiplication	3-6
AIMS magazine	1996 October	Wick Watchers	change in matter, safety, length, mass	3-8
AIMS magazine	1996 November	Apparent Sizes	sun, moon, size, distance, relative size	5-8
AIMS magazine	1996 November	The Beat of the Drum	sound, drums	5-9
AIMS magazine	1996 November	Clockwise Fractions		
AIMS magazine	1996 November	Come About	cardinal, directions, force & motion, wind energy, magnetism	4-8
AIMS magazine	1996 November	A Festival of Thanksgiving	Thanksgiving, counting, changes in matter	K-3
AIMS magazine	1996 November	The Infinite I	s[atoa;. Vosia;ozatopm. [izz;e. rectamg;e	5-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1996 November	A Swing In Time	pendulum, motion, graphing	4-8
AIMS magazine	1996 November	Threads of Time	pendulum, motion, equation	4-8
AIMS magazine	1996 December	Bear Feat	bears, adaption, contrasting, feet	2-6
AIMS magazine	1996 December	Crazy Clues	thinking loop, cards, addition	2-6
AIMS magazine	1996 December	Facing The Facts	logic, problem solving, number sense, thinking loops	2-4
AIMS magazine	1996 December	Holiday Sense	observation, sense, human body	K-1
AIMS magazine	1996 December	Isn't It Interesting	insects, animals, plants	K-12
AIMS magazine	1996 December	Seeing to Cetaceans	binary sorts, cetacean, dichotomows, key, classification	4-8
AIMS magazine	1996 December	Sorting Cards	binary numbers, bases, place value	3-8
AIMS magazine	1996 December	Worldwide Highs	Earth, patterns, climate, temperature, graphing	4-6
AIMS magazine	1997 January	Bag It	design, equalities, bag, technology	K-4
AIMS magazine	1997 January	Bear Resolutions	grid logic, bears, problem solving	2-4
AIMS magazine	1997 January	Blue-Ribbon Lunch	nutrition, health, counting, food pyramid	3-6
AIMS magazine	1997 January	Dealing with Density	scatter plot, density, states of matter, mass, volume	6-8
AIMS magazine	1997 January	Fabulous Fountain	fountain, equilibrium	K-12
AIMS magazine	1997 January	Facing the Facts	fractions, thinking loops cards	4-8
AIMS magazine	1997 January	Isn't It Interesting	bones, blood, brain	K-12
AIMS magazine	1997 January	The Peri8meter Area Ratio	perimeter, area	3-8
AIMS magazine	1997 January	The Point of a Compass	Earth's magnetic pole, directional compass, magnetism, measurement, geometry, bearing, angles, walking	4-8
AIMS magazine	1997 February	All Wrapped Up	heat energy, insulation, temperature, measurement	3-8
AIMS magazine	1997 February	Isn't It Interesting	light, sound, vacuum, rotation	K-12
AIMS magazine	1997 February	Pushes and Pulls	pulleys, force, weights, simple machines, bicycle	4-8
AIMS magazine	1997 February	Puzzle Corner	hearts, puzzle	5-12
AIMS magazine	1997 February	Tug Teams	inequality, equality, Newton's 1st Law, motion, forces	3-8
AIMS magazine	1997 February	Whack The Stack	Law of Inertia, Blocks	5-9
AIMS magazine	1997 March	Change Matters	matter, physical changes, chemical changes, Venn diagram	3-8
AIMS magazine	1997 March	Flow Fingers	flow patterns, liquids, liquid flow, observation, length, time	3-8
AIMS magazine	1997 March	Isn't It Interesting	earth , depths	K-12
AIMS magazine	1997 March	Melt Down	ice, states of matter	K-12
AIMS magazine	1997 March	Sensational Observations	candy, human senses, observation	2-4
AIMS magazine	1997 March	Touch Tells Much	sea shells, sense of touch, linear, mass, measurement	2-4
AIMS magazine	1997 March	View from the Top	bird's eye view, observation, spatial sense	4-8
AIMS magazine	1997 April	Angle Detector	laser, light, visible,	K-8
AIMS magazine	1997 April	Ca$h Combo$	grades, combinations, money	5-9
AIMS magazine	1997 April	Catapults	catapult, variables, force, motion	4-8
AIMS magazine	1997 April	Isn't It Interesting	water	K-12
AIMS magazine	1997 April	Pinch worms	adhesion	K-12
AIMS magazine	1997 April	Plastics by the Numbers	plastics, temperature, time, heat energy, light energy, properties	4-8+
AIMS magazine	1997 April	Pool Cues and Clues	plane, reflection, angles, pool, measurement	4-8+
AIMS magazine	1997 April	Pouring Over Matter	matter, solids, liquids, observations	K-4
AIMS magazine	1997 April	Sort Three	reasoning, problem solving, same/different, attributes, logic	K-2
AIMS magazine	1997 April	Twister	tornado, properties, liquids	K-8

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1997 May/June	3-D Line Plot	3D solids, patterns, number line, rims, edges, geometric solids, models, curved solids, shapes, geometry, spatial sense, pyramid, prism, cube, hexagonal, tetrahedron	4-8+
AIMS magazine	1997 May/June	The Food Tube	system, digestive tract, length, estimation	3-8
AIMS magazine	1997 May/June	Isn't It Interesting	lighting	K-12
AIMS magazine	1997 May/June	Shrink-Art	scaling, polystyrene, shrink art, recycling, plastic	2-8+
AIMS magazine	1997 May/June	A Strange Change	chemical change, wool, steel wool, balloon	K-12
AIMS magazine	1997 May/June	Tower Power	tower of Hanoi	5-9
AIMS magazine	1997 May/June	A Whale of a Scale	scale, size, animal, whale, ocean life, graphing	4-8
AIMS magazine	1997 May/June	Wrap Around Ruler	non standard, ruler, length	K-3
AIMS magazine	1997 July/August	Bicycles, Tricycles, Wagons, and Wheels	statistics, wheels, line, graph, vehicles, bicycle, tricycles, wagons	4-8+
AIMS magazine	1997 July/August	Getting to Know You	data, statistics, graphing	3-12
AIMS magazine	1997 July/August	Growing Designs	enlargement, scaling, pattern, length, area	6-8+
AIMS magazine	1997 July/August	How Many Squares?	squares, puzzles	5-9
AIMS magazine	1997 July/August	Isn't It Interesting	flies, insect	K-12
AIMS magazine	1997 July/August	Shadow Shows	sun, shadows, time, relative position, shapes	K-3
AIMS magazine	1997 July/August	Using Technology with Feel the Heat	temperature change, chemical change, plaster of paris, calculations, TI 82-83	6-8+
AIMS magazine	1997 July/August	Water Attractions	pendulum, Bernsulli	K-12
AIMS magazine	1997 September	Dealing with Squares	square, puzzle	3-8
AIMS magazine	1997 September	Green Sleeves	heat energy, seasons, angles, temperature, sun's rays, thermometers	4-8+
AIMS magazine	1997 September	Handy Maps	topographic maps, measuring	4-8
AIMS magazine	1997 September	Isn't It Interesting	primates	K-12
AIMS magazine	1997 September	A Knotty Exploration, Part 2	knots, cubes	3-9
AIMS magazine	1997 September	Riders of the Jungle Cats	puzzle, cat	3-9
AIMS magazine	1997 September	Squiggle Summit	contours, topographic map, mountain, perimeter	4-8
AIMS magazine	1997 September	Tallying the Times Table	digits, multiplication	3-8
AIMS magazine	1997 October	Brick Slide	friction, brick, rubber band, force, motion	4-8
AIMS magazine	1997 October	Corn Counts	estimation, mass, volume, popcorn	4-6
AIMS magazine	1997 October	Corny Balloons	changes of state, popcorn, balloons, pressure, mass	3-8
AIMS magazine	1997 October	The Dissected Square	square, puzzle	3-9
AIMS magazine	1997 October	Isn't It Interesting	popcorn	K-12
AIMS magazine	1997 October	Shapes on the Move	shapes, motion, solids, geometry, number sense	K-1
AIMS magazine	1997 October	Stats, Facts, and Baseball Bats	sorting, classifying, cards, statistics, Venn diagram, sets	3-6
AIMS magazine	1997 October	A Strange Change	vinegar, steel wool, thermometers	K-12
AIMS magazine	1997 October	Triangle Trek	triangle, beans, array	3-8
AIMS magazine	1997 October	Web Threads	spiders, webs, observation	3-8
AIMS magazine	1997 November	Air Catchers	magnifiers, air, environment, graphing, charting, particles	K-4
AIMS magazine	1997 November	Fractions with Pattern Blocks	fractions, pattern blocks	4-8
AIMS magazine	1997 November	Give Me A Lift	pulleys, length, rope, simple machines, whole numbers	4-8
AIMS magazine	1997 November	Isn't It Interesting	turkey	K-12
AIMS magazine	1997 November	Pumpkin, Pumpkin, Seed!	pumpkin, seeds, estimation, graphing	3-6
AIMS magazine	1997 November	Rectangle Ratios	proportion, similarity, rectangles, graphing	4-8
AIMS magazine	1997 November	The Rotating Cube	Mitlton Bradley, Froebel Toys, Cube Rotation, sphere	3-9
AIMS magazine	1997 November	Two Digit Turn Around	digit, algebra, subtraction	3-8
AIMS magazine	1997 December	Bug in a Box	pillbug, observation, algorithm, computer	3-8
AIMS magazine	1997 December	Drops On a Penny, Revisited	adhesion, cohesion, water, central tendency, dispersion, correlation, penny	4-8+
AIMS magazine	1997 December	Isn't It Interesting	reindeer	K-12

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1997 December	An Oily Illusion	oil illusion	K-12
AIMS magazine	1997 December	The Race	motion, race, velocity, time, displacement	4-8
AIMS magazine	1997 December	Sand Scan	sands, microscope, estimating, properties, observation	3-8+
AIMS magazine	1997 December	Two Digit Patterns	number tiles, patterns, more than, less than	K-3
AIMS magazine	1997 December	Up and Down the Scale	hex-a-link, scale drawings, 3D, location	4-8
AIMS magazine	1998 January	Cold Comfort	heat energy, insulation, snow, temperature, prediction	3-6
AIMS magazine	1998 January	Isn't It Interesting	clock	K-12
AIMS magazine	1998 January	Maximizing Math: Clock Palindromes	clock, palindromes	5-9
AIMS magazine	1998 January	Percent Bands	measurement, percent, elastic	4-8
AIMS magazine	1998 January	Puff the Cheeseball	air, Bernouli principle	3-8
AIMS magazine	1998 January	Seal-A-Meal	nutrition, sealion, zoo	4-6
AIMS magazine	1998 January	Time Pieces	clock, sum, region	5-9
AIMS magazine	1998 January	Two-Colored Metric Tape	ruler, non-standard measurement	K-4
AIMS magazine	1998 February	George Washington Carver	George Washington Carver	5-9
AIMS magazine	1998 February	A Heart for Birds	observation, birds, feeding, bird seed, graphing	K-4
AIMS magazine	1998 February	Isn't It Interesting	spiders	K-12
AIMS magazine	1998 February	Maximizing Math: That's Sum Face!	sums, microworld	5-9
AIMS magazine	1998 February	Messing with Mixtures	chemistry mixtures,	3-6
AIMS magazine	1998 February	Puzzle Corner Snip and Clip	puzzle, strip, clock	3-9
AIMS magazine	1998 February	Soapy Spills	matter, surface tension, water, fluids, Rayleigh-Taylor instability	4-8
AIMS magazine	1998 February	Sweet Retreat	sugar, nutrition, cereal	4-6
AIMS magazine	1998 March	Building Bridges to Algebra and Beyond	area, perimeter, patterns	4-8+
AIMS magazine	1998 March	Color Samples	M & M'S, data collection, percent, graphing, box, & whiskey	4-8
AIMS magazine	1998 March	Inclined to Work	simple machines, inclined plane, friction, force, mass	4-8
AIMS magazine	1998 March	Isn't It Interesting	birds	K-12
AIMS magazine	1998 March	Layers of our Atmosphere	layers, atmosphere model, graphing, measurement	4-8
AIMS magazine	1998 March	Puzzle Corner 'Picks, Polygons & Perimeters: The Puzzle	polygons, perimeter, area, squares, pentoninoes, toothpicks	5-9
AIMS magazine	1998 March	Take a Chance	probability, eggs	K-2
AIMS magazine	1998 April	Collecting Data	data collection, graphing, Venn diagram, bar graph	K-3
AIMS magazine	1998 April	Color Tiles	algebraic growth, perimeter, area, geometry	5-8+
AIMS magazine	1998 April	The Game of Kings	game, chess	3-8+
AIMS magazine	1998 April	Isn't It Interesting	food, nutrition	K-12
AIMS magazine	1998 May/June	Isn't It Interesting	eyes	K-12
AIMS magazine	1998 May/June	Maximizing Math:: Lines, Triangles, and Squares-Oh, My!	regions, polygons, planes	4-9
AIMS magazine	1998 May/June	Pack and Post	mass, postage, length	4-8
AIMS magazine	1998 May/June	Painted Cubes: An Exploration	calculate circumferences, areas of rectangles, triangles, and circles, volumes of rectangular solids	5-8
AIMS magazine	1998 May/June	Scouting for Patterns	patterns, attributes, nature, hand lenses, graphing	2-4
AIMS magazine	1998 May/June	Stamping into Spring	stamps, classifying, Venn diagram	K-4
AIMS magazine	1998 May/June	Sugar Highs	mass volume, sugar, soda, mass nutrition	4-8
AIMS magazine	1998 July/August	Blow Up	wind energy, simple machines, pulley/trough design	4-8
AIMS magazine	1998 July/August	Building Pickett Fences	patterns, fences, stages, sequences	4-9
AIMS magazine	1998 July/August	High Flying Flags	flags, observing, sorting, graphing	K-8
AIMS magazine	1998 July/August	Isn't It Interesting	trees	K-12
AIMS magazine	1998 July/August	Layers of the Earth	earth layers, model, geology, spatial sense, mantle, lithosphere	4-8
AIMS magazine	1998 July/August	Patterns of Tree Growth	trees, patterns, growth, diameter, circumference, pi	4-8+
AIMS magazine	1998 July/August	Puzzle Corner Tri-Square	puzzle, game, square	4-9
AIMS magazine	1998 September	Caring Cubes	health, pets	K-3
AIMS magazine	1998 September	The Cube Packing Puzzle	cubes, puzzle	4-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	1998 September	Hot Pockets	color, temperature, heat energy, radiakktion	3-6
AIMS magazine	1998 September	How High? How Far?	data collection, measurement, bar graphs, median	2-8
AIMS magazine	1998 September	Hurricane!	hurricane, meteorology, coordinate plane	5-8+
AIMS magazine	1998 September	Space for a Balloon	properties, gas, balloon	K-12
AIMS magazine	1998 October	Before and After Assessment	lessons, assessment,	
AIMS magazine	1998 October	Isn't It Interesting	penny	K-12
AIMS magazine	1998 October	A Penny for your thoughts	penny, observation, mass, length, graphing	3-8
AIMS magazine	1998 October	Schoolyard Safari	environment, observation, journal	K-8
AIMS magazine	1998 October	Slides of Refraction	properties, light refraction, fractions, decimals, percent, angles, length	4-8
AIMS magazine	1998 October	Slip, Sliding, Away	inclined plane, friction, measurement, force, motion, median	4-8
AIMS magazine	1998 November	Elect A President	problem solving, percentage, voting, ratios	5-8+
AIMS magazine	1998 November	Feather Relays	force, motion, feather, game, air, breath	4-6
AIMS magazine	1998 November	Grains Reign	food pyramid, grain, volume, mass, nutrition	4-8
AIMS magazine	1998 November	Lots of Temperature Plots	stem & leaf plots, temperature, seasons, graphing	6-8
AIMS magazine	1998 November	Mealworm Moments Part 1	mealworms, animal behavior, observation	4-8
AIMS magazine	1998 November	Solidifying Sand	sand, properties, granular materials, solids	4-8+
AIMS magazine	1998 November	Stringing the Ring	magic, string, ring	5-9
AIMS magazine	1998 December	Bent on It	light, refraction, rays, densities	4-8+
AIMS magazine	1998 December	Constant Perimeters	perimeter, area, patterns, rectangles	4-8
AIMS magazine	1998 December	Isn't It Interesting	speed of light	4-8
AIMS magazine	1998 December	It's a Breeze	weather, wind direction, speed, wind force, observation	4-6
AIMS magazine	1998 December	Mealworm Moments Part 2	mealworms, animal behavior, scientific method, observation	4-8
AIMS magazine	1998 December	Puzzle Corner Taking Away by Ones and Twos	string, ring	5-9
AIMS magazine	1998 December	Trickle Triathlon	fluids, matter, observation, Rayleigh-Taylor instability	4-8+
AIMS magazine	1999 September	Maximizing Math:: X-Cellent Addition	space,. Number sense, addition	4-8
AIMS magazine	1999 September	Weather Wear	weather, clothing, graphing, observation	
AIMS magazine	1999 December	Family of Flakes	symmetry, snowflakes, shapes, patterns, classifying, dichotomous key, weather, winter	
AIMS magazine	2000 January	Hooked On Algebra	measurement, graphing, data collection	5-8
AIMS magazine	2000 February	Here Comes Halley's	comets, Halley's comet, time, pattern, graphing, number sense,	
AIMS magazine	2000 February	Open And Shut	mirrors, protractors, angles,	4-8
AIMS magazine	2000 March	Night and Day	day, night, measurement, estimation, seasons, bar and circle graphs, time	4-8
AIMS magazine	2000 May/June	A Line on Pendulums	linear equations, pendulums, measurement	4-9
AIMS magazine	2000 July/August	Bubbling Around	circles, bubbles, graphing, 2-D and 3-D geometry, measurement	4-8
AIMS magazine	2000 November	Plod and Plot	use compass and metric measuring tape to plot spots	5-8
AIMS magazine	2000 December	Space Mission Logic	cooperative learning, space, logic, sequencing, space exploration,	4-8
AIMS magazine	2001 February	Airflow Over an Airfoil	aeronautics, airflow, wind resistance, design, problem solving, measurement, air speed	
AIMS magazine	2001 February	Flight Paths	degrees, protractor, aeronautics, flight path, geometry, spatial sense, angles, United States, geography, data collection	4-8
AIMS magazine	2001 February	Leaping Lily Pads	frogs, lily pads, number sense, probability, game, spinners, relationships, graphing	
AIMS magazine	2001 March	Astronaut Circles	logical thinking, Venn diagrams, space exploration, cooperative learning	4-8
AIMS magazine	2001 April	Make A Measuring Cup	measuring, liquids	K-8

Topic	Book	Activity	Key Words	Grade
AIMS magazine	2001 May/June	Electromagnetic Explorations	magnetism, electro magnets, compass	4-8
AIMS magazine	2001 May/June	Great Circles	great circle, globe, sphere, ball	K-9
AIMS magazine	2001 May/June	Making Cents of Dollars	money, making change	K-3
AIMS magazine	2001 May/June	Primarily Problem Solving	pattern blocks, hexagons	K-5
AIMS magazine	2001 May/June	Puzzle Corner Toothpick Triangle Challenges	puzzles, toothpicks	5-9
AIMS magazine	2001 May/June	Quake Quest	earthquakes, seismograph, primary waves, secondary waves, epicenter	4-8
AIMS magazine	2001 May/June	Space Shuttle Sequences	logical thinking, venn daigrams, space exploration, problem solving; cooperative learning	4-8
AIMS magazine	2001 May/June	Super Sandcastles	measurement, length, sandcastle	K-3
AIMS magazine	2001 July/August	Symmetry	symmetry, car wheels, insects, plants, architecture, sports, spatial sense	
AIMS magazine	2001 September	Bungee Jump	measurement, graphing, linear functions, weight, physics	4-8
AIMS magazine	2001 October	Property Lines	quadrilaterals	4-8
AIMS magazine	2001 October	Pumpkin Patch	pumpkins, logic, reasoning	4-8
AIMS magazine	2001 November	Paper Glider Construction	glider, aeronautics, design, test flight, data collection, problem solving	3-12
AIMS magazine	2001 December	Celebrating Combinations	elf, showman, problem solving gingerbread, combinations	K-3
AIMS magazine	2001 December	Match Play	game, line symmetry, geometry	3-5
AIMS magazine	2001 December	The Missing Piece	puzzle, shapes reasoning, logic, spatial visualization	4-8
AIMS magazine	2001 December	Not Gate	conduction, electricity, circuits	4-8+
AIMS magazine	2001 December	Square Rules	square numbers, Jakow Trachtenberg	3-6
AIMS magazine	2002 January	Creature Combinations	patterns, algebraic thinking, problem solving, observation, classifying, picture combinations, data collection	
AIMS magazine	2002 February	Determining Diameters	measurement, trees, diameter	4-8
AIMS magazine	2002 February	Wheel World Symmetry	wheels, symmetry, spatial sense, angles, rotation, degrees	4-12
AIMS magazine	2002 March	Junk's Puzzles	spatial sense, logic, problem solving	4-8
AIMS magazine	2002 July/August	Zoo-Knowlogy	zoo, directions, problem solving, puzzle, game	
AIMS magazine	2002 September	Uniquely Even	row, columns, even, number sense, problem solving	
AIMS magazine	2003 January	Penguin and Snowman	penguin, snowman, winter, spinners, probability, problem solving	
AIMS magazine	2003 March	A Pair of Pumps	heart	4-10
AIMS magazine	2003 March	Fabulous Periodic Eggs	patterns, periodic table, eggs, classification	2-12
AIMS magazine	2003 July/August	Air Stations	volume, matter, air, observation	3-6
AIMS magazine	2003 July/August	Dots By the Dozen	dominoes, logic, puzzles	4-6
AIMS magazine	2003 July/August	Earth Tones	soil, colors, properties, graphing	K-3
AIMS magazine	2003 July/August	Figuring Fingers and Tallying Toes	skip counting, multplication patterns	
AIMS magazine	2003 July/August	It All Adds Up	problem solving, addition	K-3
AIMS magazine	2003 July/August	Magnetic Games	force, magnets, gravity	4-8
AIMS magazine	2003 July/August	Seek and Hide	addition, whole-number operation	
AIMS magazine	2003 July/August	Square One	puzzle, square, problem solving	4-9
AIMS magazine	2003July/August	Star Spangled Bigger	proportional reasoning, scale, ratios, percents, linear measurement, US flag	5-9
AIMS magazine	2003 September	Abacus Adventures	numeration systems, China, Japan	5-9
AIMS magazine	2003 September	A-counting for Apples	apples, algebra crows, problem solving	5-9
AIMS magazine	2003 September	Addition Rummy	games, addition	5-9
AIMS magazine	2003 September	Bone Biopsy	bones, skeleton	7+
AIMS magazine	2003 September	Fabulous Fossil Facts	fossils, extinction	
AIMS magazine	2003 September	Static Sensations	static electricity, senses	3-5
AIMS magazine	2003 October	Digita Doings	measurements, hand	3-6
AIMS magazine	2003 October	ESP Extraordinary Solution Prediction	algebra, solving equations	5-9
AIMS magazine	2003 October	Gravity Clock	gravity clock, sand time,	4-8

Topic	Book	Activity	Key Words	Grade
AIMS magazine	2003 October	Maximizing Math:	square grid, logic,magic square	4-9
AIMS magazine	2003 October	Mini-measure Golf	golf measurement	3-6
AIMS magazine	2003 October	Spin to Win	number sense probability	1-3
AIMS magazine	2003 November	Accounting	hydrology, graphing percents,	4-8
AIMS magazine	2003 November	Dueling Decimals	decimals	4-8
AIMS magazine	2003 November	Earth Forces	earth force, plate tectonics	6-10+
AIMS magazine	2003 November	Eyes on Observation	telescopes, microscopes, magnification	4-8
AIMS magazine	2003 November	Primarily Pro-bear-bility	bears, probability	K-4
AIMS magazine	2003 November	Sign-In-Sheets and Data Displays	data, analysis, graphing	K-3
AIMS magazine	2003 November	Who's My Mom?	animals, heredity, offsprings, venn diagrams, classifying	K-2
AIMS magazine	2003 December	Figuring Flight Facts	hot air balloons, flight, logic, planes	K-1
AIMS magazine	2003 December	Firsts in Flight	flight, Wright Brothers, Bessie Coleman, Amelia Earhart, Chuck Yeager	4-8
AIMS magazine	2003 December	The Four Forces of Flight	flight, force, weight, drag, thrust	6-10+
AIMS magazine	2003 December	Handy Helicopters	helicopters, force, gravity	4-8
AIMS magazine	2003 December	Hatching the Egg	puzzle, egg, birds, spatial, visualization	4-8
AIMS magazine	2003 December	Maximizing Math:	airplane, fuel	4-8
AIMS magazine	2003 December	The Plane Measurement	plane, measurement, estimation, length	K-2
AIMS magazine	2003 December	Plotting Planes	geometry, ordered pairs, coordinate grid, symmetry, gliders	4-8
AIMS	2003 December	Pioneers of Flight	flight	4-8
AIMS magazine	2003 December	Rock and Roll (And Yaw)	planes, axes, center of gravity, 34d law of motion, angles	6-10+
AIMS magazine	2003 December	To Fly or Not to Fly?	flight, force, motion, sorting, classifying	K-3
AIMS magazine	2004 January	Does This Hold Water?	graphing, soils, percolation, volume	4-8
AIMS magazine	2004 January	Fabulous Folds	20 shape, geometry, fabric	K-3
AIMS magazine	2004 January	Geo-Jackets	surface, area, volume, nets, congruence	4-8
AIMS magazine	2004 January	Integer Slide Rule	integer, slide, rule	6-10+
AIMS magazine	2004 January	Maximizing Math:	cards, game, shapes, geometry	4-8
AIMS magazine	2004 January	Rain Forest Fractions	fractions, rain forest, storyboard	K-2
AIMS magazine	2004 January	Soup-er Floaters & Sinkers	float & sink, venn diagram, classifying	K-3
AIMS magazine	2004 February	Arm and Hammer	arm, lever, fulcrum, effort	4-8
AIMS magazine	2004 February	Checkered Flag	velocity, acceleration, coordinate plane, absolute value	6-10+
AIMS magazine	2004 February	Playing with Probability	probability	K-3
AIMS magazine	2004 February	Probability on a Roll	probability	4-8
AIMS magazine	2004 February	Pushed Around	force, motion,	K-3
AIMS magazine	2004 February	Race to the Pole	probability game, North Pole	4-8
AIMS magazine	2004 February	Sweet Squares	measurement, valentine cards, area, perimeter, linear	K-3
AIMS magazine	2004 March	Bag O Bones	skeleton, body, bones	K-3
AIMS magazine	2004 March	Build A Bog	bog, habitat, ecology, conservation	4-8
AIMS magazine	2004 March	Cliff Diving	force of gravity, graph lines, parabola	5-8
AIMS magazine	2004 March	Humdingers & Whistleblowers	sound, frequency, pitch	4-8
AIMS magazine	2004 March	Maximizing Math:	probability, game	4-8
AIMS magazine	2004 March	Sixteen-Penny Puzzle	acceleration, non-linear function	6-10+
AIMS magazine	2004 March	Spin A Spud	addition, number sense	K-3
AIMS magazine	2004 March	Triple Treasure Trivia	game,	K-3
AIMS magazine	2004 April	Clowning Around	positional words, geometry, shapes	K-2
AIMS magazine	2004 April	Fossils are my bag	fossils, invertebrates	4-8
AIMS magazine	2004 April	Fraction Time	fractions, clocks, time	4-8
AIMS magazine	2004 April	Livin' in a Bog	bog, plants, moss, ecology, graphing	4-8
AIMS magazine	2004 April	A Stone's Throw	rocks, game, properties	K-3
AIMS magazine	2004 April	What's the Solution?	fog, clouds, states of matter, solution, dispersion, suspension	
AIMS magazine	2004 May/June	A Velcro Wall in Math Class	velcro, proportional reasoning, graphing	5-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	2004 May/June	Amazing Arrays: The Search for Patterns, Part Three	calendar math	4-8
AIMS magazine	2004 May/June	Habitat Changes	habitat, organisms	4-8
AIMS magazine	2004 May/June	Knots on a Graph	algebraic thinking, slope, intercept, variables, equations	6-10+
AIMS magazine	2004 May/June	Lines to Design	angles, lines, shapes, congruence	4-8
AIMS magazine	2004 May/June	Spin Cycle	Earth rotation, time zone	4-8
AIMS magazine	2004 May/June	Waste Not, Want Not	water conservation	K-3
AIMS magazine	2004 May/June	You Can Count on us	counting, dinos, pumpkins	K-2
AIMS magazine	2004 July/August	3-D Profiles	shadows, spatial	4-8
AIMS magazine	2004 July/August	Calendar Clues	problem solving, calendar patterns	2-4
AIMS magazine	2004 July/August	Card Combos	number sense	K-3
AIMS magazine	2004 July/August	A Frog's Life	tadpoles, frogs, life cycle, butterfly	K-3
AIMS magazine	2004 July/August	Schmoos 'n' Goos	problem solving, story problems	4-8
AIMS magazine	2004 July/August	A Simple Math Machine	algebraic thinking, functions	4-8
AIMS magazine	2004 July/August	"Vore"-acions Eaters	herbivore, omnivores, carnivores, organisms	4-8
AIMS magazine	2004 July/August	Who has more money?	integers, money game,	6-10+
AIMS magazine	2004 October	Connecting Concepts	surface tension , pressure, measurement, length, density, area, volume, one-dimensional, two-	5-9
AIMS magazine	2004 October	Constellation Creations	stars, constellations	K-3
AIMS magazine	2004 October	Decimal Detectives	logic, place value, decimals, odd, even	4-8
AIMS magazine	2004 October	Made-to-Order Rectangles	logic,rectangles, area tiles	4-8
AIMS magazine	2004 October	Numbers & Their Names Part Three	numeration systems, Egyptian, Roman	4-9
AIMS magazine	2004 October	Sum Domino Discoveries	dominoes, probability, analysis	6-10+
AIMS magazine	2004 October	Tools of the Trade	measurement, length, mass, volume, temp	K-3
AIMS magazine	2004 October	Tracking Down the Family	animal babies, tracks	4-8
AIMS magazine	2004 October	Trail Totals	problem solving, addition, mazes	K-3
AIMS magazine	2004 November	Astronomical Numbers	planets, size, scale, exponents, powers of 10	6-10+
AIMS magazine	2004 November	Comparing Cubes	metrics, volume, area, scale	4-8
AIMS magazine	2004 November	Constellation Cycles	astronomy, constellations, stars	K-8
AIMS magazine	2004 November	My Place in Space	space, whole numbers, addition, subtraction	K-3
AIMS magazine	2004 November	Princess Summerfall Winterspring	seasons, earth-sun, celestial isphre, declination, ascension, ecliptic	4-12
AIMS magazine	2004 November	Shrinking Space	solar system, scale	4-8
AIMS magazine	2004 November	Shuttle Shuffle	astronauts, shuttle	K-3
AIMS magazine	2004 November	Solar System sizes	solar, system, planets, linear, area, volume, ratio, scale	4-8
AIMS magazine	2004 November	Sunrise Sunset	sunrise, sunset, patterns	4-8
AIMS magazine	2004 December	Cell Mates	cell structure, animal cells, vacerole, nucleus, cell walls, plant cells	5-8
AIMS magazine	2004 December	Fishy Findings	grouping, number sense,	4-8
AIMS magazine	2004 December	Flexi-Walls	geometry, plane, parallel, intersecting, angles, congruence,	4-8
AIMS magazine	2004 December	Grab-A-Charge	integers, net charge, positive charge, negative charge	6-10+
AIMS magazine	2004 December	Pricing Packages	mass, money, measurement	K-4
AIMS magazine	2004 December	Waste Watchers	reduce, reuse, recycle, environment	K-4
AIMS magazine	2004 December	The Water Strider	water strider, force, motion	
AIMS magazine	2005 January	Amazing multiplication arrays	multiplication arrays	3-5
AIMS magazine	2005 January	Bag a Bear	practice logical thinking skilss	4-8
AIMS magazine	2005 January	Clue Me In	problem solving,compare, contrast	3-5
AIMS magazine	2005 January	The Great Kapok Tree	food,shelter,Kapot Tree, ecology, rain forest, understory, canopy	3-5
AIMS magazine	2005 January	Maximizing Math: Finding Floors and Reckoning Rungs	integers, problem solving	4-9
AIMS magazine	2005 January	Moby Pink	reproduction, microscope, protozo, cells	6+
AIMS magazine	2005 February	Button Holes	buttons, patterns, classifying, observation	K-3
AIMS magazine	2005 February	Food Hangouts	habitat, food, farm	4-8
AIMS magazine	2005 February	Mapping the Positions of the Planets	plantets, sun, position, ecliptic, stars, ascension, declination	4-8
AIMS magazine	2005 February	A Matter Of States	matter area	4-6

Topic	Book	Activity	Key Words	Grade
AIMS magazine	2005 February	Newspaper Skeltons	polyhedron, faces, spatial visulalization	4-8
AIMS magazine	2005 February	Picturing a Solution	problem solving, word problems	K-3
AIMS magazine	2005 February	Shrink Art	shrink art, scale, proportion, geometry, percent, recycling	6-8
AIMS magazine	2005 February	What's the Scoop?	money, problem solving, whole number operations	4-6
AIMS magazine	2005 March	Flagging Down Geometry	geometry, shapes, lines	3-8
AIMS magazine	2005 March	A Fractional Fish	fractions, geometry	1-4
AIMS magazine	2005 March	Life in the Depths	oceans, logic, sea life, fish, groupwork	3-8
AIMS magazine	2005 March	Ocean Facts and Problems	measurement, ocean, problem solving	3-8
AIMS magazine	2005 March	Ocean Layers	anagram, ocean puzzle	4-8
AIMS magazine	2005 March	Sea Food	logic, sea life, habitat, sea food, plants, animals	3-8
AIMS magazine	2005 March	Sea Shapes	geometry, tangrams, sea life, fish	K-3
AIMS magazine	2005 March	The Sum of Two Odd Numbers: A Student's Justification	even & odd numbers	K-5
AIMS magazine	2005 April	Air Blades	air blades, seed pods, dispersal tree	4-6
AIMS magazine	2005 April	Bread Trail	food, bread	K-3
AIMS magazine	2005 April	Can O' Worms	measurement, worms	3-8
AIMS magazine	2005 April	Clay Cuts	3-D, cross-sections	4-8
AIMS magazine	2005 April	Head Size to Hat Size	measurement, conversions, hat size	4-8
AIMS magazine	2005 April	Sedimentary Stories	geology, sedimentary rock sequence, earth history	3-8
AIMS magazine	2005 April	Sevens of Sevens	problem solving, Leonardo of Pisa, Rome	4-8
AIMS magazine	May/June 2005	Base Ten Bingo	build, read, write numbers, gain practice in identyfing numbers written in expanded notation	K-2
AIMS magazine	May/June 2005	Building Places	build number cards, place-value challenge, create own number challenges	3-5
AIMS magazine	May/June 2005	Master and Commander of Speed	use proportions, distance, measurement, graph, speed	6-9
AIMS magazine	May/June 2005	Nine-Digit Whole No. Challenge	use whole numbers, create correct addition problems, problem-solving, organize information	3-5
AIMS magazine	May/June 2005	Paper Engineering	engineers know, do, design	3-5
AIMS magazine	May/June 2005	Powered Up	identify energy sources, sort and classify	K-2
AIMS magazine	May/June 2005	The Art of Hurling	catapult, collect data, improve catapults based on data, comparing/contrasting, observing	3-9
AIMS magazine	May/June 2005	Three-to-Five Triangle Puzzle	puzzle	3-5
AIMS magazine	May/June 2005	Tile Tallies	work in groups, develop ways to count, evaluate methods	K-2
AIMS magazine	Fall 2005	Amplicups	energy, sound, amplification, pitch, vibration, observing, inferring	2-3
AIMS magazine	Fall 2005	Apple Arrays	apple, array, logical thinking, problem solving, observing comparing	1-6
AIMS magazine	Fall 2005	How Heavy? How Far?	motion, linear measurement, averaging, cars, ramps, mass, distance, observing, data collection, comparing	4-5
AIMS magazine	Fall 2005	Maximizing Math: One Step At A Time	problem solving, miles, linear measurement, observing, data collection, unit conversion	5-8
AIMS magazine	Fall 2005	Megapixels	place value, exponents, linear measurement, area, observing, comparing	4-5
AIMS magazine	Fall 2005	Number Story Theater, Too	problem solving, whole numbers, observing, comparing, counting, addition, subtraction	pK-1
AIMS magazine	Fall 2005	Olympic Round-UP	rounding, linear measurement, whole numbers, observing, data collection, data analysis, comparing	2-3
AIMS magazine	Fall 2005	Season Cycles	plants, animals, seasons, observing, comparing, clothing	K-1
AIMS magazine	Fall 2005	Sunshine Snapshot	seasons, length of day, latitudes, daylight, graphing, data analysis, meteorology, astonomy, Earth/Sun relationship, world, predicting, observing, data collection, geography, rotation, Earth's tilt, revolution, equinox, solstice	6-9
AIMS magazine	Fall 2005	Widgets, Inc.	math properties, algebra, variables, observing, comparing	6-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	Winter 2005	Stand Up! Line Up!	ordering, sets, seriation, attributes, comparison	K-1
AIMS magazine	Winter 2005	Butter Up	whipping crem, volume, time, butter, properties	K-1
AIMS magazine	Winter 2005	Watch Dogs	measurement, time, game board, dogs	2-3
AIMS magazine	Winter 2005	Radishes Rock	weathering, observation, plants	2-3
AIMS magazine	Winter 2005	Flagging Down Angles	geometry, angles, alphabet, semophore flag signals	4-5
AIMS magazine	Winter 2005	Finding Faults With Food	ocean plates, continental plates, plate boundaries, geology, force, motion, trench, convergent boundaries, divergent boundaries, transform boundaries, graham crackers, chocolate chips	4-5
AIMS magazine	Winter 2005	Baskets, Stats, and Probabilities	probability, freethrows, basketball, fractions, data analysis, proportional reasoning	6-9
AIMS magazine	Winter 2005	Birds of a Feather	heredity, Punnett squares, traits, genetics, fractions, percents, decimals, dominant genes, recessive genes, genotype, phenotype	6-9
AIMS magazine	Winter 2005	Turkey Tails	spinners, probability, problem solving	_
AIMS magazine	Winter 2005	Consecutive-Triple Play	baseball, problem solving, patterns, averaging, equations	_
AIMS magazine	Winter 2005	Square Off	puzzle, grids	_
AIMS magazine	Spring 2006	Garden Graphing	graphing, observation, compare and contrast, butterfly catepillar, pasta	K-1
AIMS magazine	Spring 2006	Planet Pals	reuse, recycle, observation, environment,	K-1
AIMS magazine	Spring 2006	Gumball Grab	probability, data analysis, observation, compare and contrast, data collection	2-3
AIMS magazine	Spring 2006	Eating Up Energy	food, human body, counting, game, whole number operation	2-3
AIMS magazine	Spring 2006	Fair Play	probability, data analysis, observation, compare and contrast, data collection	4-5
AIMS magazine	Spring 2006	Crystal Clear Patterns	mineral, structure, geometric shapes, patterns, crystals	4-5
AIMS magazine	Spring 2006	Speed Trap	speed, measurement, time, graphing, slope, equations, proportional reasoning	6-9
AIMS magazine	Spring 2006	Pop-Up Cells	plant cell, animal cells, model, observation, golgi bodies, mitochondrion, nucleus, vacuole, compare and contrast	6-9
AIMS magazine	Spring 2006	On the Right Track	addition, problem solving, observation, train	1-3
AIMS magazine	Spring 2006	Exposing Equations	spatial visualization, problem solving, compare and contrast, cubes	4-8
AIMS magazine	Summer 2006	Find the Family	botany, plants, parents, offspring, observing, coparing, constrasting	K-1
AIMS magazine	Summer 2006	Fruitful Fractions	number sense, observing, classifying, watermelon,	K-1
AIMS magazine	Summer 2006	Gallons Galore	measurement, volume, observing, predicting, comparing, contrasting	2-3
AIMS magazine	Summer 2006	Attracted to Color	moth, bee, hummingbird, garden, adaptions, flower	2-3
AIMS magazine	Summer 2006	Mix-Ups and Mysteries	clock, problem solving, mondy, muffins, elapsed time, oberving	4-5
AIMS magazine	Summer 2006	Boning Up on Structure	vertebrates, invertebrates, giraffe, worm, measurement	4-5
AIMS magazine	Summer 2006	Square Root the Carpenter's Way	pythagorean, measurement, problem solving	6-9
AIMS magazine	Summer 2006	A Submarine Fountain	density, liquid, pressure, ratios, proportions	6-9
AIMS magazine	Summer 2006	Find the Fit	geometry, spatial sense, 2-D shapes, attributes	
AIMS magazine	Summer 2006	Ad-Venn-tures With Data	data analysis, venn diagram,	
AIMS magazine	Fall 2006	Bears Wear Buttons	counting, numbers, observation, shirts	k-1
AIMS magazine	Fall 2006	Lid Skid	force, motion, observation, compare and contrast	k-1
AIMS magazine	Fall 2006	Pie Graph	bar graph, circle graph, observation, communication, data	2-3
AIMS magazine	Fall 2006	Homemade Microscopes	lenses, magnification, observation, data	2-3
AIMS magazine	Fall 2006	Mark My Words	coordinate grid, observation, communication	4-5
AIMS magazine	Fall 2006	Metamorphic Munchies	rocks, minerals, observation, compare and contrast, data	4-5

Topic	Book	Activity	Key Words	Grade
AIMS magazine	Fall 2006	Bungee Dolls	linear function, graphing, equations, forces, elasticity, gravity	6-9
AIMS magazine	Fall 2006	The Necker Cube	visual perception, geometry, point, line segment, plane, human body, optical illusions	6-9
AIMS magazine	Fall 2006	The Catch of the Day	problem solving, counting, measurement, problem solving, fish	
AIMS magazine	Fall 2006	Credit My Account	problem solving, decimal, money	
AIMS magazine	Winter 2006	Ten Gallon Hat	measurement, area, place value, unifix cubes	K-1
AIMS magazine	Winter 2006	Parts	human body, senses, life science, body parts	K-1
AIMS magazine	Winter 2006	Money Matters	counting, measurement, money,	2-3
AIMS magazine	Winter 2006	Separation Stations	measurement, counting, matter, physical change, mixtures, observation, classifying, compare and contrast	2-3
AIMS magazine	Winter 2006	The Math Ball Knows All	algebra, numbers and operations, place value, problem solving	4-5
AIMS magazine	Winter 2006	Arm and Hammer	levers, human body, observation, compare and contrast, fulcrum, force,	4-5
AIMS magazine	Winter 2006	Pivotal Functions	functions, algegra, patterns, relationships, observation, data collection,	6-9
AIMS magazine	Winter 2006	Cook-Keys to Elements	atoms, elements, models, observation, compare and contrast, data collection	6-9
AIMS magazine	Winter 2006	Treasure Hunters	problem solving, logic, positional words, compare and contrast, identification	4-8
AIMS magazine	Spring 2007	The Biggest Butterfly	measurement, length, collecting data	K-1
AIMS magazine	Spring 2007	Dirt Drawings	soil, coloring, properties, observing, comparing, contrasting	K-1
AIMS magazine	Spring 2007	Fresh-Baked Fractions	pizza, observing, classifying	2-3
AIMS magazine	Spring 2007	Spud Buds	potato, classification, attributes, venn diagram, dichotomous key,	2-3
AIMS magazine	Spring 2007	Dealing With Decimals	place value, problem solving, card game	4-5
AIMS magazine	Spring 2007	Size Surprise	earth, moon, diameter, mass, measurement, estimation	4-5
AIMS magazine	Spring 2007	Jumping to Solutions	equations, algebra, length	6-9
AIMS magazine	Spring 2007	Up the Voltage, Igor!	electricity, voltage, circuit, decimals, graph	6-9
AIMS magazine	Spring 2007	Cereal Sequence	patterns, observing, comparing	
AIMS magazine	Spring 2007	Pattern Detective	multiplication	
AIMS magazine	Fall 2007	Tricky Treats	candy, logic, geometry, shape, problem solving	K-1
AIMS magazine	Fall 2007	Apple Matters Heat Up	heat energy, changes in matter	K-1
AIMS magazine	Fall 2007	I'm the Greatest	comparing numbers, greater than, less than, place value	2-3
AIMS magazine	Fall 2007	Dried Out Data	evaporation, dehydration, data collection, data analysis, mass, measurement, bar graph,	2-3
AIMS magazine	Fall 2007	Folding Fractions	observing, compare, contrast	4-5
AIMS magazine	Fall 2007	Slingshot Sedans	force, motion, push/pull, measurement, length, range, mode, median,	4-5
AIMS magazine	Fall 2007	What's in the Bank	equations, variables, distribution	6-9
AIMS magazine	Fall 2007	Electricity Eaters	resistor, circuit, place value, whole number, percentages, ohm's law, voltage, current, resistance	6-9
AIMS magazine	Fall 2007	Triangle Totals	problem solving, addition	
AIMS magazine	Fall 2007	Pattern Paths	problem solving, observing, comparison, contrast	
AIMS magazine	Winter 2007	Number Walk	nominal numbers,	K-1
AIMS magazine	Winter 2007	Living or Nonliving?	ovserving, classification, compare, contrast	K-1
AIMS magazine	Winter 2007	What's in Your Yard?	measurement, linear	2-3
AIMS magazine	Winter 2007	Tune Thumpers	palm pipes, sound, observation, copare, contrast	2-3
AIMS magazine	Winter 2007	Measure for Measure	conversion, measurement, time, distance, mass, volume, area	4-5
AIMS magazine	Winter 2007	Hands and Fingers, Muscles and Bones	human body, muscles, tendons, ligaments, bones,	4-5
AIMS magazine	Winter 2007	Circle Cover-Ups	pi, area, formulas, circle, square	6-9
AIMS magazine	Winter 2007	Rate the Risks	siesmic, waves, earthquakes,	6-9

Topic	Book	Activity	Key Words	Grade
AIMS magazine	Winter 2007	Barnyard Roundup	addition, problem solving,	
AIMS magazine	Winter 2007	Factoring and Fractions	factors, coordinate grid, problem solving	
AIMS magazine	Spring 2008	Shapes on the Bus	geometry, observation, classification, collecting data, recording data	K-1
AIMS magazine	Spring 2008	The Up Side of Magnets	magnetic force, attract, repel, magnetic poles, observation	K-1
AIMS magazine	Spring 2008	All Aboard for Rounding	rounding, observing, train	2-3
AIMS magazine	Spring 2008	Shrinking Supplies	resources, population, organisms	2-3
AIMS magazine	Spring 2008	Left-to-Right Addition	addition, place value, equations	4-5
AIMS magazine	Spring 2008	Crystal Creations	crystals, volume, 3D Shapes, ovservation	4-5
AIMS magazine	Spring 2008	Measuring Percent	scavenger hunt, elastic, percent, equivalence, length,	6-9
AIMS magazine	Spring 2008	Breathe In, Breathe Out	respiratory system, human body, lungs, balloon	6-9
AIMS magazine	Spring 2008	From Day to Week to Month	problem solving, time, ordering	
AIMS magazine	Spring 2008	Patterns of Penny Placement	problem solving, patterns, number sequences, inferring	
AIMS magazine	Summer 2008	Staying Centered	counting, money, pigs, trains, coins, order, sets	K-1
AIMS magazine	Summer 2008	Melting Pots	solar heat, sun, energy	K-1
AIMS magazine	Summer 2008	Measure for Treasure	length, pirate, metric, measurement	2-3
AIMS magazine	Summer 2008	Reader's Theater: We Need Each Other	plants, animals, ecosystem	2-3
AIMS magazine	Summer 2008	Transformers	geometry, slides, flips, turns, pattern block, game board	4-5
AIMS magazine	Summer 2008	Rabbit Food	organisms, population, food chain, scarcity	4-5
AIMS magazine	Summer 2008	Playing the Odds	statistics, sampling, probability, game	6-9
AIMS magazine	Summer 2008	RBG LED	light, cyan, jmagenta, yellow, white, color mixing	6-9
AIMS magazine	Summer 2008	Construction Zone	geometry, 3 D	
AIMS magazine	Summer 2008	Puzzling Over Purchases	problem solving, decimals, subtraction	
AIMS magazine	Fall 2008	Pizza Problems	number sentences, counting, addition, observing, pizza, compare, contrast	K-1
AIMS magazine	Fall 2008	We've Got Guppies	life science, interdependence of life, observing, compare, contrast, prediction	K-1
AIMS magazine	Fall 2008	Dice, Dominoes, and Decks	addition, subtraction, place value, ovserving, compare, contrast, cards	2-3
AIMS magazine	Fall 2008	Weather Windows	earth science, meteorology, observing, predicting, compare, contrast	2-3
AIMS magazine	Fall 2008	Modeling a Million	number sense, place value, ovserving, compare, contrast, data collection, base ten blocks,	4-5
AIMS magazine	Fall 2008	Magnetic Shuffleboard	computation, force, magnetism, observation, compare, contrast	4-5
AIMS magazine	Fall 2008	Catch and Release	estimation, sampling, probability, ratios, problem solving, prediction, data collection	6-9
AIMS magazine	Fall 2008	River Run	line graph, earth science, geology, erosion, deposition, U.S. rivers, Mississippi River, Colorado River	6-9
AIMS magazine	Fall 2008	Primarily Problem Solving: Poison Apple	number sense, problem solving, compare, contrast, patterns	
AIMS magazine	Fall 2008	Maximizing Math: Left-to-Right Multiplication	place value, observation, compare, contrast	
AIMS magazine	Winter 2008	Turkey and Dressing	measurement, compare, length, contrast, classifying, observing	K-1
AIMS magazine	Winter 2008	Big Dog Charades	push, pull, force, motion, observation, classification, compare, contrast	K-1
AIMS magazine	Winter 2008	Coat Questions	data, observation, classifying	2-3
AIMS magazine	Winter 2008	Property Flip	size, shape, color, texture, physical properties, matter	2-3
AIMS magazine	Winter 2008	Clued In to Decimals	logic, clues, decimal, fraction, place values, greater than, less than	4-5
AIMS magazine	Winter 2008	Constellation Coordinates	plot, coordinate grid, astronomy, observation, compare, contrast	4-5

Topic	Book	Activity	Key Words	Grade
AIMS magazine	Winter 2008	Triangle Cut-Ups	area, parallelogram, triangles, formula, compare, contrast, observation	6-9
AIMS magazine	Winter 2008	Guppies Galore	observation, offspring, parents, life cycle, heredity, reproduction, life science	6-9
AIMS magazine	Winter 2008	Seesaw Santa	problem solving, equalities, inequalities, estimation,	
AIMS magazine	Winter 2008	Put It On The Table	nultiplication, patterns, logic, grid	
AIMS magazine	Spring 2009	Balancing Bean-y Babies	mass, comparison, measurement,	K-1
AIMS magazine	Spring 2009	Two Soils	physical properties, soil, observation, comparison, writing	K-1
AIMS magazine	Spring 2009	Angle Aerobics	acute, obtuse, rightangles, observation, comparison, kinesthetic	2-3
AIMS magazine	Spring 2009	Peas, Please	plants, life cycles, observation, comparison, data collection, identification	2-3
AIMS magazine	Spring 2009	Salute to Facts	multiplication, division, algebraic thinking, observation, inferring, application, cards	4-5
AIMS magazine	Spring 2009	Bunches of Bats	habitat, cave, measurement, temperature, organisms, adaptiation, observation, comparison, contrast, data collection, application	4-5
AIMS magazine	Spring 2009	Picturing Percents	percent, fractions, decimals, conversion, equivalence, area, measurement, observation, comparision, prediction, application	6-9
AIMS magazine	Spring 2009	Magnetic Potential	potnetial energy, kinetic energy, magnet, measurement, graphing, average, magnetism	6-9
AIMS magazine	Spring 2009	Saluting Subtraction and Addition	problem solvien, logic, number sentence, cards, equations, algebraic thinking, observation, inferring, application	
AIMS magazine	Spring 2009	Easy as 1,2,3	problem solving, addition, subtraction, multiplication, division, number sense, order of operations, observation	
AIMS teacher guide	Awesome Addition and Super Subtraction	Math Spots	problem solving, number sense, problem solving, patterns, data collection	
AIMS teacher guide	Counting On Coins	Ad-Ventures	money, number sense, numeration, observation, art	
AIMS teacher guide	Crazy About Cotton	Where in the World Is Cotton?	cotton, geography, agriculture, cotton belt, US farming, latitudes, longitudes, mapping, map reading, problem solving, comparison	
AIMS teacher guide	Critters	Animal Antics	classification, animal, insects, observation, classification, graphing, Animal Kingdom	K-6
AIMS teacher guide	Critters	Catch Me If You Can	food chains, predator, prey, game, animals, insects, data collection, graphing	K-6
AIMS teacher guide	Critters	Census Takers	sampling, averaging, graphing, census, animals, insects, population	K-6
AIMS teacher guide	Critters	Food Chain	food chain, insects, animals, consumers, producers, food web,	K-6
AIMS teacher guide	Critters	Home on the Range	animal homes, critter, observation, classification, habitat	K-6
AIMS teacher guide	Critters	Metamorphosis Wheel	metamorphosis, insects, egg, larva, pupa, adult, insect	K-6
AIMS teacher guide	Critters	Missing Moths	moths, camouflage, graphing, observation, data collection	K-6
AIMS teacher guide	Critters	Moth Maps	moths, maps, camouflage, number sense, graphing, decimals, percentages	K-6
AIMS teacher guide	Critters	Popping Through the Garden	spider, insect, body parts, observation, classification, number sense	K-6
AIMS teacher guide	Critters	Table Manners	insect, mouthpart, measurement, graphing, data collection, observation	K-6
AIMS teacher guide	Critters	Wings and Webs	insects, spiders, body parts, number sense, observation, data collection	K-6
AIMS teacher guide	Cycles of Knowing and Growing	What A Corny Life	life cycles, corn, observation, estimation, measurement	
AIMS teacher guide	Electricity Lab Kit	Electricity Lab	electricity, jagnets, batteries, light bulbs	4-8+

Topic	Book	Activity	Key Words	Grade
AIMS teacher guide	Exploring Environments	A Day in the Life of A River	environment, river, aquatic life, ecology, trees, wildlife	K-4
AIMS teacher guide	Field Detectives	Dirt Dwellers	decomposers, consumers, leaf litter, soil, insects, measurement, numbers sense, microscope, hand lens, data collection	3-6
AIMS teacher guide	Field Detectives	It's Bean A Great Place To Live	habitat, plants, animals, number sense, observation, map, problem solving	3-6
AIMS teacher guide	Field Detectives	Life in the Food Chain	food chain, graphing, insects, environment, habitats, food web, animals, ecosystems, observation, classification, data collection	3-6
AIMS teacher guide	Field Detectives	Telltale Clues	problem solving, logic, trees, forest, habitat, observation, data collection,	3-6
AIMS teacher guide	Field Detectives	Tree House	trees, habitat, insects, ecosystem, plants, animals, observation,	3-6
AIMS teacher guide	Finding Your Bearings	Count Me In!	ramdon sampling, population	5-8
AIMS teacher guide	Finding Your Bearings	Country Crush	population, area, density	5-8
AIMS teacher guide	Finding Your Bearings	Drifitng Apart	spatial sense, logic, cooperative learning	5-8
AIMS teacher guide	Finding Your Bearings	Economically Speaking	economics, problem solving, area, measurement, percents, gross	5-8
AIMS teacher guide	Finding Your Bearings	Fire On The Mountain	compass, measurement, logic, problem solving, map skills	5-8
AIMS teacher guide	Finding Your Bearings	Forecast for Today	weather, temperature, average, prediction, range	5-8
AIMS teacher guide	Finding Your Bearings	Getting There	maps, logic, problem solving, measurement, design	5-8
AIMS teacher guide	Finding Your Bearings	Global Adventures	continents, oceans, Venn diagrams, hemispheres, spatial awareness, geography, cooperative learning	5-8
AIMS teacher guide	Finding Your Bearings	Mystery Mountain	contour maps, topography, measurement,	5-8
AIMS teacher guide	Finding Your Bearings	Navigating Numerically	road maps, patterns, cardinal directions	5-8
AIMS teacher guide	Finding Your Bearings	People 'Plosion	population, geography, estimation, spatial sense, graphing	5-8
AIMS teacher guide	Finding Your Bearings	Physically Featured	latitude, longitude, measurement, spatial sense, coordinates, graphing	5-8
AIMS teacher guide	Finding Your Bearings	Plot Your Position	latitude, longitude, measurement, spatial sense, coordinates, graphing, percent	5-8
AIMS teacher guide	Finding Your Bearings	Scale the Room	measurements, scale,	5-8
AIMS teacher guide	Finding Your Bearings	Shrinking Boundaries	measurement, scale,	5-8
AIMS teacher guide	Finding Your Bearings	South American Jigsaw	spatial sense, logic, cooperative learning	5-8
AIMS teacher guide	Finding Your Bearings	Surf 'n Sand Count	latitude, longitude, measurement, spatial sense, coordinates, graphing, percent	5-8
AIMS teacher guide	Finding Your Bearings	Surf 'n Sand Spin	latitude, longitude, measurement, spatial sense, coordinates, graphing, percent	5-8
AIMS teacher guide	Finding Your Bearings	Surf 'n Sand Toss	latitude, longitude, measurement, spatial sense, coordinates, graphing, percent	5-8
AIMS teacher guide	Finding Your Bearings	Tic-Tac Room	measurement, scale	5-8
AIMS teacher guide	Finding Your Bearings	Trail Blazing	compass, measurement, logic, problem solving, map skills	5-8
AIMS teacher guide	From Head To Toe	Are You Mean?	measurement, mean, median, mode, human body, metrics, estimation,	
AIMS teacher guide	From Head To Toe	Corpus Around Us	human body, skeleton, measurement, perimeter, height, ratio, observation	
AIMS teacher guide	From Head To Toe	Dem Bones	skeleton, bones, human body, anatomy, measurement, biology	
AIMS teacher guide	From Head To Toe	Golden Proportion	measurement, ratio, human body, skeleton, decimal	
AIMS teacher guide	From Head To Toe	Ye Old Records For Dem Bones	skeleton, bones, human body, anatomy, measurement, biology, data	
AIMS teacher guide	Fun With Food	Fraction Soup	fraction, sood, measurement, graphing, percents	
AIMS teacher guide	Fun With Food	It's A-Peeling	measurement, volumes, metrics, estimate, percent	

Topic	Book	Activity	Key Words	Grade
AIMS teacher guide	Gravity Rules!	How Fast Can You Walk?	velocity, measurement, average, graphing, slope	5-12
AIMS teacher guide	Gravity Rules!	Skydiver	skydiver, velocity, gravity	
AIMS teacher guide	Gravity Rules!	Terminal Velocity	gravity, velocity, slope, CBR	5-12
AIMS teacher guide	Hardhatting In a GeoWorld	Are You Square?	estimation, measurement, graphing, observing, collecting/recording data, comparing/contrasting, classifying, interpreting data	3-5
AIMS teacher guide	Hardhatting In a GeoWorld	Geo-Panes	counting, spatial sense, predicting, observing, collecting/recording data, comparing/contrasting, generalizing, geometric figures minerals, bubbles, Euler	3-5
AIMS teacher guide	Jaw Breakers and Heart Thumpers	Gimme Five	fingerprinting, measurement, patterns, graphing	4-8
AIMS teacher guide	Jaw Breakers and Heart Thumpers	Hands On The Giant	measurement, height, giant, human body, comparison, ration, proportion, problem solving	
AIMS teacher guide	Just For the Fun Of It	Calendar Capers	calendar, patterns, problem solving, comparison, observation	4-10
AIMS teacher guide	Just For the Fun Of It	Fascinating Triangle	problem solving, triangle, logic, number sense	4-10
AIMS teacher guide	Looking At Lines	BBs In A Boat	algebra, linear functions, domain, formula, volume, cylinder, force, equilibrium, observation, data collection, problem solving	
AIMS teacher guide	Looking At Lines	Nickels and Dimes	money, algebra, functions, observation, graphing, domain, range	
AIMS teacher guide	Marvelous Multiplication and Dazzling Division	Stacking the Facts	number sense, multiplication,	
AIMS teacher guide	Math + Science: A Solution	Big Banana Peel	banana, prediction, measurement, mass, ratio, average, graphing, formula, data collection, comparison, problem solving	
AIMS teacher guide	Math + Science: A Solution	Graph = Feet-EE	graphing, metric, measurement	4-8
AIMS teacher guide	Math + Science: A Solution	It's Simply Marbleous	slope, average, measurement, graphing	4-8
AIMS teacher guide	Math + Science: A Solution	Just Drop It!	data collection, measurement	4-8
AIMS teacher guide	Math + Science: A Solution	M&Ms - Count and Crunch	data analysis, probability, ratio	4-8
AIMS teacher guide	Math + Science: A Solution	Mini Metrics Olympics	measurement, estimation, graphing	4-8
AIMS teacher guide	Math + Science: A Solution	Practically Pi	cylinder, diameter circumference, ratio, decimal	4-8
AIMS teacher guide	Math + Science: A Solution	Second Guessing	time, estimation, ratio, decimal, percent,	4-8
AIMS teacher guide	Math + Science: A Solution	Trial & Error Learning	time, measurement, maze	4-8
AIMS teacher guide	Math + Science: A Solution	What's In the Bag	data analysis, percents, average	4-8
AIMS teacher guide	Our Wonderful World	Predator vs. Prey	insects, life, predator, prey, pipe cleaners, graphing, game, averaging,	
AIMS teacher guide	Out of This World	Can You Planet?	Venn diagrams, astronomy, planets, solar system, number sense	4-8
AIMS teacher guide	Out of This World	Galactic Games	planets, measuring, averaging, number sense, gravity, asteroid	
AIMS teacher guide	Out of This World	Phone Home	shapes, percentages, measuring,	4-8
AIMS teacher guide	Out of This World	Planet Trivia	planets, problem solving,	4-8
AIMS teacher guide	Overhead and Underfoot	Bug Races	insects, relative speed, measurement, number sense, comparison	3-5
AIMS teacher guide	Paper Square Geometry	Cube	geometry, cube, polyhedra, faces, edges, vertices, surface areas,	
AIMS teacher guide	Paper Square Geometry	Regular Tetrahedron	geometry, tetrahedron, polyhedra, faces, edges, vertices, surface areas,	
AIMS teacher guide	Pieces and Patterns	Halves and Halve-nots	mirrors, symmetry	3-6
AIMS teacher guide	Pieces and Patterns	Mirrors That Multiply	mirrors, angles, degrees	3-6
AIMS teacher guide	Pieces and Patterns	Nature of Symmetry	symmetry, shape, spatial	3-6
AIMS teacher guide	Pieces and Patterns	Nature's Part in Art and Math	symmetry, shape	3-6
AIMS teacher guide	Pieces and Patterns	Rally Round the Room	planes, friction, kinetic energy	3-6

Topic	Book	Activity	Key Words	Grade
AIMS teacher guide	Primarily Bears: Book 1	Let Me Count The Ways	number sense, bears, weight, mass, sequence, logic, measurement	K-3
AIMS teacher guide	Primarily Bears: Book 1	Math With M&Ms Candies	number sense, graphic, classifying, data collection	K-3
AIMS teacher guide	Primarily Physics	Eggs Full of Sound	senses, reasoning,	K-3
AIMS teacher guide	Primarily Physics	Heat Energy and Color	heat energy, absorption, color, measurement, observation	K-3
AIMS teacher guide	Primarily Physics	I Love Color	color, light, observation, rainbow, prediction, graphing	K-3
AIMS teacher guide	Primarily Physics	Just Passing Through	light energy, transparent, translucent, opaque, classification, observation	K-3
AIMS teacher guide	Primarily Physics	Light Sources	light, observation, classifying	K-3
AIMS teacher guide	Primarily Physics	Make a Thermometer	thermometer, measurement, graphing, observation	K-3
AIMS teacher guide	Primarily Physics	Melt an Ice Cube	heat, measurement, graphing, number sense, insulators, ice cubes	K-3
AIMS teacher guide	Primarily Physics	Mirrors Reflect	light, reflection, mirrors, symmetry, angles, observation	K-3
AIMS teacher guide	Primarily Physics	Prism Power	prism, color, rainbow, observation, refraction, predicting	K-3
AIMS teacher guide	Primarily Physics	The Eyes	human, sight, organs, eye, observation, mirror	K-3
AIMS teacher guide	Primarily Physics	What Is Hot and What is Cold?	Venn diagram, heat energy, hot, cold, temperature, classification	K-3
AIMS teacher guide	Primarily Physics	What Is the Temperature?	thermometer, measurement, graphing, observation	K-3
AIMS teacher guide	Primarily Plants	Inside a Seed	seeds, plant growth, plants, measurement, number sense, size, shape, color, comparison, embryo, seed coat	
AIMS teacher guide	Primarily Plants	Seed Sort	seeds, plant growth, plants, measurement, number sense, size, shape, color, comparison, embryo, seed coat, classification	
AIMS teacher guide	Primarily Plants	Super Tuber	plants, roots, fibrous roots, taproots, plant growth; number sense; measurement, weight	
AIMS teacher guide	Primarily Plants	The Seed Within	seeds, plant growth, plants, measurement, number sense, size, shape, color, comparison	
AIMS teacher guide	Proportional Reasoning	Paper Clip Chains	patterns, proportions, graphing	5-8
AIMS teacher guide	Proportional Reasoning	Tailor Made	human proportions, measurement	5-8
AIMS teacher guide	Puzzle Play	Bridge Crossing Challenge	bridge, puzzle, problem solving,	
AIMS teacher guide	Puzzle Play	Up and Down the Staircase	illusions, visual sense, stairs, puzzle, problem solving, M.C. Esher,	
AIMS teacher guide	Spills and Ripples	Flow Fingers	flow patterns, liquids, measurement, time, fluid flow, observation, data collection	
AIMS teacher guide	Spills and Ripples	Liquid Rope	flow patterns, liquids, measurement, time, fluid flow, observation, data collection	
AIMS teacher guide	Through the Eyes of the Explorer	Diary Daze	calendars, Wyeth, maps, rates, measurement, logic, observation	5-8
AIMS teacher guide	Through the Eyes of the Explorer	Overland Mapping	latitude, longitude, measurement, spatial sense, coordinates, graphing	5-8
AIMS teacher guide	Through the Eyes of the	Space Maps	space exploration, coordinates,	5-8
AIMS teacher guide	Through the Eyes of the Explorer	Uncanny Vision	contour maps; spatial sense, graphing coordinates	5-8
AIMS teacher guide	Water, Precious Water: Book A	Water Olympics	water, measurement, games,	
AIMS teacher guide	Weather Sense: Moisture	A Cloud Is Born	clouds, weather, observation, demonstration, water cycle, meteorology	
AIMS teacher guide	Weather Sense: Moisture	A Matter of Degrees	scales, degrees, comparison	
AIMS teacher guide	Weather Sense: Moisture	Cloud Combos	clouds, observations, problem solving	
AIMS teacher guide	Weather Sense: Moisture	Sky Watch	clouds, weather, observation, data collection, booklet	

Topic	Book	Activity	Key Words	Grade
AIMS teacher guide	Weather Sense: Temperature, Air Pressure and Wind	Heat Bands	heat, temperature, measurement, thermometer, isotherms, graphing, number sense, spatial sense, meteorology	
AIMS teacher guide	Weather Sense: Temperature, Air Pressure and Wind	Just A Gust!	meteorology, earth, weather station, wind speed, angle, estimation, data collection, graphing, comparison	
AIMS teacher guide	Winter Wonders	Gingerbread Man	Christmas, gingerbread man, measurement, food, graphing, problem solving, money, estimating, patterns, data collection, art, children's book	
AIMS teacher guide	Winter Wonders	Rows Of Bows	measurement, observation, Christmas, bows	
AIMS teacher guide	Winter Wonders	Temperature Told Hot or Cold	thermometer, measurement, graphing, observation, headband, winter, weather,	
AIMS teacher guide	Winter Wonders	The Remarkable Peanut	peanut, George Washington Carver, measurement, data collection, plant growth, February, number sense, human senses	
AIMS teacher guide	Winter Wonders	Weather Wear	weather, clothing, graphing, observation, seasons	
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Chronology: The Time of My Life	chronology, stratigraphy, timeline, problem solving,	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Classification and Attributes	artifact, attribute, classification, observation, comparison, mining camp,	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Context	game, problem solving, artifacts, archaeologists	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Culture Everywhere	cultural relativism, culture, ethnocentrism, archaeologists	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	It's In the Garbage	artifact, chronology, context, culture, problem solsving, evidence, inference, midden, observation	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Observation and Inference	artifact, data, hypothesis, inferencem observation, archaeologists	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Scientific Inquiry	artifact, archaeologists, classification, inquiry, observation, data collection	4-7
Earth Science: Archeology	The Intriguing Past: Fundamentals of Archaeology	Why Is the Past Important?	artifact, archaeology, sites, brainstorming	4-7
Earth Science: Landforms and Geomorphology	People, Places and Patterns: Geography Puts The Pieces Together	What Shape Is Your Population In?	population pyramids, bar graphs, comparison, data analysis,	
Earth Science: Landforms and Geomorphology	People, Places and Patterns: Geography Puts The Pieces Together	Where's There's Light, There Are People	satellite, nightlights, United States, population distribution,	
Earth Science: Landforms and Geomorphology		Arkansas Floor Map	Arkansas regions, relative location,	4-5
Earth Science: Landforms and Geomorphology		Arkansas Geography	Arkansas cities, names, quiz	
Earth Science: Landforms and Geomorphology		Be A Geologist	plate tectonics, geologist, earthquakes, volcanoes, plate boundaries,	8
Earth Science: Landforms and Geomorphology		Hands On Arkansas Pizza	Arkansas, landforms, playdoh, Arkansas River Valley, Ozark Plateau, Ouachita Mts, Crowley's Ridge, Mississippi Alluvial Plain, Gulf Coastal Plain	4-6

Topic	Book	Activity	Key Words	Grade
Earth Science: Landforms and Geomorphology		How Do I Get There?	place, movement, human-environment interaction, geographic regions, United States, travel modes, settlers	6-8
Earth Science: Landforms and Geomorphology		How to Build and Use Your Earthquake Liquefaction Model	demo, earthquake, liquefaction, model	
Earth Science: Landforms and Geomorphology		Landformations	Earth's physical features, game, playdoh	4-8
Earth Science: Landforms and Geomorphology		Nine Major Regions of the US	Appalachian Mts, Rocky Mts, Pacific Mts, Great Basin, Ozark Highlands, Colorado Plateau, High Plains, Low Plains, Gulf Coastal Plain, puzzle	
Earth Science: Landforms and Geomorphology		Quakin', Shakin', Rockin' and Rollin'	earthquakes, seismic waves, Arkansas	
Earth Science: Landforms and Geomorphology		Roll on	Arkansas, rivers, settlers, location, place, regions	
Earth Science: Landforms and Geomorphology		Topographic Tour	bulletin board, states, landforms	
Earth Science: Landforms and Geomorphology		What The Word For It?	landforms, bodies of water	
Earth Science: Landforms and Geomorphology		Who Said That?	landform, water body, problem solving, game	
Earth Science: Landforms and Geomorphology		Zeroing In On A Mountain	volcanoes	6-12
Earth Science: Landforms and Geomorphology		GIS Fable		
Earth Science: Remote Sensing		Echo the Bat	remote sensing, echo the bat, filters, light, digital pictures, imagers	
Earth Science: Remote Sensing		Imagery: Arkansas	satellite imagery, space shuttle photos, Arkansas, spatial awareness, remote sensing, geography, US	
Earth Science: Remote Sensing		Imagery: Houston	satellite imagery, space shuttle photos, Houston, Galveston, spatial awareness, remote sensing, geography, US	
Earth Science: Remote Sensing		Imagery: New Orleans	satellite imagery, space shuttle photos, New Orleans, spatial awareness, remote sensing, geography, US	
Earth Science: Remote Sensing		Imagery: Pennsylvania	satellite imagery, space shuttle photos, Pennsylvania, spatial awareness, remote sensing, geography, US	
Earth Science: Rocks, Fossils and Minerals	Earth Science Week	A Paste With A Taste	mineral, product, calcium carbonate, sodium bicarbonate	3-8
Earth Science: Rocks, Fossils and Minerals	Earth Science Week	Cupcake Core Sampling	analysis, core samples, food, Earth's inner composition	k-5
Earth Science: Rocks, Fossils and Minerals	Earth Science Week	Geologic Time Sclae Analogy	geologic time, scale, metaphor	7-12
Earth Science: Rocks, Fossils and Minerals	Earth Science Week	Mineral Identification Activity	mineral, ID, observation, sorting, classification, properties	4-12
Earth Science: Rocks, Fossils and Minerals	Mighty Minerals	Metallic Minerals	goald, aluminum, iron, silver, copper, zinc, nickel, lead, mercury, puzzle	4
Earth Science: Rocks, Fossils and Minerals	Mighty Minerals	Non-Metallic Minerals	silica, clay, sand, gravel, limestone, salt, phosphates, asbestos, borates, sulfur	4

Topic	Book	Activity	Key Words	Grade
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Build An Oil Well	oil, natural gas, petroleum, model, drill rig diagram	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Classifying Rocks	classification, properties, dichotomous key, corting,	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Creeping Lava	lava, corn syrup, demonstration	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Exploration Activities	finding, removing, processing, ore, claim sites,	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Growing Crystals	ammonia, iodine, crystals	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Igneous Rocks / Volcanoes	magma, volcano, igneous, lava, extrusive, intrusive	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Layers of the Earth	layers, crust, mantle, inner core, outer core, apple,	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Make Your Own Volcano	crater, magma chamber, volcano, plaster of paris	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Making Sandstone	sand, cement	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Making Sedimentary Rocks	cementation, sandstone, shale, limestone, cement, plaster	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Metamorphic Rock Activities	heat, pressure, clay, bubble gum, metamorphic	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Metamorphic Sandwiches	heat, pressure, sandwich	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Mineral Mosiac	construction paper, "granite", art	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Minerals Make Rocks	granite, sandstone, marble	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Mock Rocks	edible play dough, rocks	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Peanut Brittle Volcano	cooking, lava, simulation	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Rock Critters/ Pet Rock	art, rocks, painting	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Rock Families	igneous, metamorphic, sedimentary, rock families,	3-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Rock Goodies	cooking, igneous, sedimentary, metamorphic	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	Sedimentary Rock Activities	settling, sedimentary layers	k-6
Earth Science: Rocks, Fossils and Minerals	Mineral Education	What Is A Mineral?	mineral, mohs scale of hardness,	3-6

Topic	Book	Activity	Key Words	Grade
Earth Science: Rocks, Fossils and Minerals	Volcanoes, Dinosaurs, and Fossils	Plaster Fossils	plaster of paris, fossils, impressions, dinosaurs, archaeological dig	
Earth Science: Rocks, Fossils and Minerals		Careers In Mining	careers, mining, metallurgist, game, geologist,statistician, reclamation,	4-12
Earth Science: Rocks, Fossils and Minerals		How to Find Size, Roundness and Sorting on Sand Chart	sand, roundness, sorting, size	4-12
Earth Science: Rocks, Fossils and Minerals		Mineral Resources in Arkansas	minerals, resources, geology, Arkansas	
Earth Science: Rocks, Fossils and Minerals		Northwest Arkansas Fossils	fossils, brachiopods, crinoids, bryozoa, coelenterata, mollusca, gastropods, echinodermata, paleontology, limestone	
Earth Science: Rocks, Fossils and Minerals		Rocks, Minerals and Soil Formation	rock classification, mineral ID, weathering, mineral ID in soils, common minerals in soils, mineral micrographs	3-12
Earth Science: Rocks, Fossils and Minerals		Very Simple Metamorphic Rock Classification	rocks, classification, metamorphic, heat and pressure	K-6
Earth Science: Soils	GLOBE: Soils	Soil	soil, structure, color, consistence, soil texture, horizons, classification, textural triangle, GLOBE	4-12
Earth Science: Soils	GLOBE: Soils	Soil Investigation	GLOBE, soil, particle size distribution, sand, silt, clay, measurement, data collection, textural triangle, soil moisture	
Earth Science: Soils	GLOBE: Soils	Soil Particle Size	GLOBE, soil, particle size distribution, sand, silt, clay, measurement, data collection, textural triangle	4-12
Earth Science: Soils		Sammy Soil	children's book, coloring book, soil, conservation, farmer, erosion, cycles	k-3
Earth Science: Soils		Sieves	soil, sieve, data collection, sand, silt, clay	
Earth Science: Soils		So Much Depends on So Little	soil, earth, demonstration, apple, fractions	3-12
Earth Science: Soils		Soil Intro chart	Soils, use, biology, geology, physics, chemistry	K-12
Earth Science: Soils		Soil Nutrients	ph, soil, phosphates, fertilizers, potassium, nitrates, plant growth, plants	4-12
Earth Science: Soils		Soil Testing	soil, soil capacity, oxygen, holding capacity, organisms, bioscope, petri dish	4-8
Earth Science: Soils		Soil Wetlands	soil, wetlands, indicators, soil color	
Earth Science: Water		Every Drop Counts	world's water, percentages, water distribution, demonstration	4-6
Earth Science: Water		Water Facts of Life	drinking water, water use, conservation	
Earth Science: Water		Water On A Penny	penny, dropper, prediction, statistics	4-12
Earth Science: Weather	Great Weather Activities	Beaufort Wind Scale	wind, measurement	3-5
Earth Science: Weather	Great Weather Activities	Cloud Finder	clouds, weather, observation	3-6
Earth Science: Weather	Great Weather Activities	Follow A Raindrop	rain, sequencing	K-3
Earth Science: Weather	Great Weather Activities	Read A Weather Map	weather, data collection, temperature	3-5
Earth Science: Weather	Great Weather Activities	Twister Totals	tornadoes, map reading	3-6
Earth Science: Weather	Great Weather Activities	Watch the Weather Chart	weather, data collection	3-5
Earth Science: Weather	Great Weather Activities	A Week of Wind	wind, data collection	3-5

Topic	Book	Activity	Key Words	Grade
Earth Science: Weather	Great Weather Activities	Wind Whirler	wind	3-5
Earth Science: Weather	NASA Science News	Here Comes Urban Heat	heat islands, remote sensing,	
Earth Science: Weather	NCAR/NASA	Tornado In A Bottle	hail, cloud, lightening, weather, tornado	K-8
Earth Science: Weather	NOAA	Amateur Weather Forecaster	weather, forecasts	K-12
Earth Science: Weather	NOAA	Storms Ahead!: Owlie Skywarn's Weather Book	weather, storms, hurricane, tornado, lightning, flash flood, snow, temperature conversion, Celsius, Fahrenheit, coloring book	2-6
Earth Science: Weather	Taming the Tornado Tube	Taming the Tornado Tube	tornadoes	K-8
Earth Science: Weather	The Weather Classroom	Hurricanes: When and Where?	hurricane, tracking, tropical climatology, longitude, latitude, preparation, Saffir-Simpson Damage Scale, economics,	
Earth Science: Weather		Clouds: Cumulonimbus	weather, clouds, cumulonimbus	K-12
Earth Science: Weather		Hurricane Bonnie	weather, hurricanes, maps, ocean, latitude, longitude, Hurricane Bonnie	6-12
Earth Science: Weather		Hurricane Floyd Images	weather, imagery, Hurricane Floyd	K-12
Earth Science: Weather		Hurricane Tracking	weather, hurricanes, maps, ocean, latitude, longitude	4-8
Earth Science: Weather		Paper Pinwheel	air, pinwheel, wind, wind speed, art, design	
Earth Science: Weather		Relative Humidity chart	measurement, relative humidity, weather	6-12
Earth Science: Weather		Solar Eclipse of August 11, 1999: Estimating the distance to the Moon	sun, moon, solar eclipse, distance, estimation	6-12
Earth Science: Weather		Weather Calendar	weather, calendar, weather facts	
Earth Science: Weather		Weather Watcher Chart	weather, data collection	3-8
Environment	The Earth in the Classroom	Nitrogen in the Environment	nitrogen, groundwater, fixed nitrogen, global nitrogen cycle, atmospheric nitrogen,	7-12
Environment		Consider Some Economics	contamination, by-products, clean up	6-12
Environment		Island Survival	estimation, natural resources, solid wasate, nutrition, source reduction, problem solving	
Environment		Life Cycle Inventory	energy, raw materials, water effluents, ariborne emissions, solid waste, waste management, reycycle, reuse	
Environment		Personal Radiation Dose	radiation waste, household, nuclear materials	7-12
Environment		The Secret Lives of Everyday Things	sustainability, comsumption, consumerism, ecosystem, human capital, sustainable development, coffee	
Environment		Who Says You Can't Change The World	education, transporation, energy, ozone depletion, trash, recycling, global stewards	
Environment: Air and Atmosphere	BioRap Teacher's Guide	Focus: Sun and Skin	healthy skin, UV rays, Ozone, skin cancer, survey, data collection,	6-12
Environment: Air and Atmosphere	Ozone Layer: Educator's Guide	Monitoring Ozone from Your Classroom	ozone, depletion, global climate change, data analysis, Antarctic,	4-12+
Environment: Air and Atmosphere	Ozone Layer: Educator's Guide	Out Goes The Ozone	CFCs, UV radiation, ozone, models, molecules, carbon, fluorine, chlorine,	4-12+
Environment: Air and Atmosphere	Ozone Layer: Educator's Guide	Ozone Tag	ozone, UV radiation, CFC, chemical reactions, atmosphere,	4-12+
Environment: Air and Atmosphere	Ozone Layer: Educator's Guide	Welcome To the Ozone	ozone, measurement, data collections, parts per million,	4-12+
Environment: Air and Atmosphere	Ozone Layer: Educator's Guide	What is Causing Thinning of the Ozone Layer?	ozone, stratosphere, sunspots, CFCs,	4-12+
Environment: Air and Atmosphere	Ozone Layer: Educator's Guide	Why Are Scientists Concerned About Thinning Of the Ozone Layer?	ozone, phytoplankton, food web, pond water, decomposers, zooplankton photosynthesis,	4-12+

Topic	Book	Activity	Key Words	Grade
Environment: Air and Atmosphere		About Aerosols and the Environment		4-12+
Environment: Air and Atmosphere		Air Junk: Specks, Flecks and Particles in the Air	air, pollution, data collections	4-8
Environment: Air and Atmosphere		Hole-y Mole-y	ozone hole, Antarctic	4-12+
Environment: Air and Atmosphere		Nimbus 7 - TOMS Images: The 8 Marches	Total Ozone Mapping Spectrometer, good ozone, bad ozone, data collection, measurement	4-12+
Environment: Air and Atmosphere		TOMS Ozone - Difference From Climatology	parts per million, ozone	4-12+
Environment: Air and Atmosphere		UV Peroxide Oxidation System Activity	UV, hydrogen peroxide, liver, data collection, sumblock, SPF	4-12
Environment: Air and Atmosphere		What A Gas!	atmosphre, gases, trace gases, nitrogen, oxygen, carbon dioxide, water vapor, argon,	4-12+
Environment: Energy		Energy	opinion, energy use, game, per capita usage, state	6-12
Environment: Pollution		Tracking Pollution: A Hazardous Whodunnit	topographic map, ground water, ground water contamination, plume, pollutants	6-8
Environment: Population		Countdown to 6 Billion Teaching Kit	population, overpopulation, world, gender and culture, natural resources,	
Environment: Population		Population: More Is Less: Background Information	world population, quality of life, emigration, immigration, carrying capacity, exponential growth	4-12+
Environment: Waste Disposal		Disposal of Household Cleaning Products	waste disposal, household chemicals, recycling	4-12+
Environment: Water	Earth: The Water Planet	Take Me To Your Lost Liter	measurement, water, liters, water conservation	
Environment: Water	Geography Action! Rivers 2001	A River Puzzle	river, puzzle, water treatment plant, sewage treatment plant, paper mill, watershed, mouth, source	
Environment: Water	Geography Action! Rivers 2001	Human River Activity	rivers, water pollution	K-4
Environment: Water	Geography Action! Rivers 2001	River Systems	watershed, river, water cycle, downstream, upstream, wetlands, meander, tributary, floodplain	
Environment: Water	Geography Action! Rivers 2001	User-Friendly Rivers	watershed, river, water cycle	5-8
Environment: Water	Geography Action! Rivers 2001	Watch Your Water Use	water, water use, data collection	
Environment: Water	National Water Summary	Arkansas Ground Water Resources	ground water, water, water supply, Arkansas, water pollution	
Environment: Water	Project WET	How To Make A Personal Water Meter	water meter, water conservation, measurement	4-12
Environment: Water	Project WET	Color Me A Watershed	ground water, water pollution, measurement, statigraphy, problem solving, watershed	4-12
Environment: Water	Project WET	Dilemma Derby	water management, water conservation, measurement; decision making	4-12
Environment: Water	Project WET	Get the Ground Water Picture	ground water, water pollution, measurement, statigraphy	4-12
Environment: Water	Project WET	Grave Mistake	ground water, water pollution, measurement, statigraphy, problem solving, Civil War	4-12
Environment: Water	Project WET	Money Down The Drain	water meter, water conservation, measurement	4-12
Environment: Water	Project WET	Pucker Effect	ground water, point source, pollution, non-point source	
Environment: Water	Project WET	Recipe for Trouble	wetlands, point source pollution, nonpoint source, ecosystems	4-12
Environment: Water	Project WET	Regulation Rummy	Clean Water Act, National Environmental Policy Act, Executive Order 11990, Protection of Wetlands, Rivers and Harbors Act, Food Securities Act, Floodplain Protection Coastal Zone Management Act, Fish and Wildlife Coordination Act	4-12
Environment: Water	Project WET	Ride the New Wave of Water Education	ground water, water pollution, measurement, statigraphy, problem solving, watershed, decision making	4-12
Environment: Water	Project WET	Waterborn Diseases	waterborn diseases, case studies, environment, decision making	4-12
Environment: Water	Project WET	Wetlands Flow Chart	wetlands, ecosystem	4-12

Topic	Book	Activity	Key Words	Grade
Environment: Water	Project WOW: Wonders of Wetlands	Marsh Munchies	food chain, marsh,	4-12
Environment: Water	USGS	Water Distribution	demonstration, water cycle,	
Environment: Water	USGS: Water Fact Sheet	Acid Rain	pH, acid rain, water cycle, air pollution	
Environment: Water	USGS: Water Fact Sheet	Arkansas Flood and Drought	Arkansas, water quality, water cycle, climatology, weather	
Environment: Water	USGS: Water Fact Sheet	Arkansas Stream Water Quality	Arkansas, streams, water quality, water cycle	
Environment: Water	USGS: Water Fact Sheet	Arkansas Surface Water Resources	surface water, resources, water cycle, Arkansas	
Environment: Water	USGS: Water Fact Sheet	Arkansas Water Supply and Use	Arkansas, water quality, water supply, water use	
Environment: Water	USGS: Water Fact Sheet	Drought	drought, water cycle, precipitation, soil moisture	
Environment: Water	USGS: Water Fact Sheet	Flood and Flood Plains	flood, rain, weather, water cycle, hurricanes, thunderstorms, frontal storms, flash floods, flood stage, flood plain	
Environment: Water	USGS: Water Fact Sheet	Ground Water Quality	ground water, water quality, Arkansas, water cycle	
Environment: Water	USGS: Water Fact Sheet	Ozark Plateau	Ozarks, water quality, water pollution, water cycle	
Environment: Water	USGS: Water Fact Sheet	Ozark Plateaus Ground Water Study	Ozarks, plateau, ground water, water pollution, springfield plateau, ozark aquifer, St. Francois aquifer, alluvial aquifer	
Environment: Water	USGS: Water Fact Sheet	Ozark Plateaus Surface Water	Ozarks, plateau, surface water, water quality,	
Environment: Water	USGS: Water Fact Sheet	Toxic Water: Ground-water Contamination Program	toxic waste, contamination, water quality, Arkansas	
Environment: Water	USGS: Water Fact Sheet	What Is Ground Water?	ground water, aquifer, recharge,	
Environment: Water		Celebrate Wetlands	investigations, wetlands, soils, plants, water cycle	
Environment: Water		Coliscan Filter	ecoli, water pollution, water filter, colioform, bacteria	
Environment: Water		Groundwater Contamination	groundwater, water pollution, contamination, water cycle	
Environment: Water		Groundwater flow model	Plexiglas, water model, groundwater movement, groundwater, water cycle	
Environment: Water		pH limits	pH, organisms, macro invertebrates, fish, lethal limits	
Environment: Water		ppm	ppm, parts per million, measurement, demonstration, observation	K-4
Environment: Water		Use of GIS to rank Counties for potential Groundwater Pollution	groundwater, water pollution, GIS	10-12
Environment: Water		What Is Ground Water?	ground water, water cycle, recharge,	
Family Math and Science	Family Math	Hurkle	graphing, quadrants	K-8
Family Math and Science	Family Math	Nimble Calculator	calculator, games, addition, subtraction	K-8
Family Math and Science	Family Math	Odd or Even	counting	K-2
Family Math and Science	Family Math	On The Dot	counting	K-2
Family Math and Science	Family Math	Perfect People	measurement, human body, proportion, symmetry	K-8
Family Math and Science	Family Math	Pico, Fermi, Bagels	place value	K-8
Family Math and Science	Family Math	Three Bean Salad	beans, ratios, proportions	4-8
GEMS	Bubble-ology	Bubble Solution	bubbles, measurement, problem solving, refraction, chemistry	K-12
GEMS	Bubble-ology	Experimenting with Glycerin	bubbles, measurement, problem solving, glycerin, chemistry, averaging	K-12

Topic	Book	Activity	Key Words	Grade
GEMS	Build It Festival	Create-a-Shape	3-D, pattern blocks	
GEMS	Build It Festival	Dowel Designs - Activity 2	measurement, cooperative learning, spatial	K-12
GEMS	Build It Festival	Tangram Master	tamgra, spatial sense, patterns	K-12
GEMS	Build It Festival	Tesselations	tesselations, spatial sense	K-12
GEMS	Discovering Density	Liquid Layers	density, salt water, water	6-10
GEMS	Discovering Density	Secret Formulas	density, observation, problem solving	6-10
GEMS	Earth, Moon and Stars	Constellation Finder	constellations, observation, night sky	5-9
GEMS	Earth, Moon and Stars	Earth-Sun Relationships	sun, earth, solstice, equinox, seasons, rotation, revolution, fall, summer, spring, winter, axis, orbit, plane of the ecliptic, axial precession,earth	5-9
GEMS	Fingerprinting	Fingerprint data page	fingerprinting, measurement, patterns, data collection, observation, human body	4-8
GEMS	Fingerprinting	Fingerprint patterns	Gimme Five, whorl, loop, arch, fingerprints, human body, problem solving, observation, data collection, graphing, cooperative learning	4-8
GEMS	Fingerprinting	Suspects	Gimme Five, whorl, loop, arch, fingerprints, human body, problem solving, observation, data collection, graphing, cooperative learning, suspects	4-8
GEMS	Frog Math	Frog Pond Game	frogs, game, pond, probability, problem solving, cooperative learning	K-3
GEMS	Frog Math	Hop To The Pond	frogs, game, pond, probability, problem solving, cooperative learning, dice	K-3
GEMS	Frog Math	Roll All Six	game, probability, problem solving, cooperative learning, dice	K-3
GEMS	Frog Math	Tens - Ones Chart	counting, tens, ones, problem solving, number sense	K-3
GEMS	Global Warming and The Greenhouse Effect	Greenhouse Effect Diagram	greenhouse gases, infrared, solar radiationm evaporation, transpiration, cycle, absorption, reflection	7-12
GEMS	Group Solutions I and II	Bear Line Up Mats	sequencing, bears, cooperative learning, problem solving, number sense	
GEMS	Group Solutions I and II	Bear Pattern	bear, cooperative learning, design, art	
GEMS	Group Solutions I and II	Group Solution Masters	sequencing, problem solving, number sense, bears, classification, pies, spatial awareness, computation, shapes, colors, directions, money, mapping, measurement, pattern, logic, cooperative learning, games	
GEMS	Invisible Universe		electromagnetic spectrum, light, gamma rays, xrays, microwaves, radio waves, observation, astronomy, geometry, powers of 10,	4-9+
GEMS	Ladybugs	Ladybug pattern	ladybird beetles, ladybugs, symmetry, pattern, art	pk-1
GEMS	Ladybugs	Ladybug Spots	ladybird beetles, ladybugs, symmetry,	pk-1
GEMS	Math On the Menu	Combination Plate	menu, math, food choices, problem solving, latin american, cooperative learning	3-5
GEMS	Messages From Space	Charting The Planets	planets, mean distance, orbit, rotation, axis, solar system, moons, rings	5-8
GEMS	Messages From Space	Our Solar System Data Table	space, solar system, data collection, remote sensing	5-8
GEMS	Messages From Space	Solar System Model	Sun, planets, solar system, design, model, measurement, orbit, diameter, planetary movement	5-8
GEMS	Messages From Space	U.S. Planetary Mission	space exploration, US space, planets, solar system, unmanned spaceflight, robotics	5-8
GEMS	On Sandy Shores	Sand on Stage	sand, ID, magnification,	4-9
GEMS	On Sandy Shores	Under the Sand	sand, ocean life	2-4
GEMS	Penguins and Their Young	Penguin and Egg Patterns	penguin, egg, design, art	pk-1

Topic	Book	Activity	Key Words	Grade
GEMS	Plate Tectonics	Debating Four Theories	plate tectonics, cooperative learning, decision making, problem solving, crustal plates,	6-8
GEMS	Plate Tectonics	Geologic Field Notebook	plate tectonics, earthquakes, volcanoes, rocks, viscosity, density, earth, rock cycle, statigraphy, igneous rock, journaling, data collection, measurement, design	6-8
GEMS	Plate Tectonics	World Crustal Plates	world map, crustal plates, plate tectonics, earth	6-8
GEMS	Quadice	Quadice Game	quadice, mathematics, game, number sense, dice,	4-8
GEMS	Stories In Stone	Crystal Shapes	crystals, rocks, geometric figures, cube, hexagonal prism, tetrahedron, octahedron, dodecahedron, pyritohedron, faces, edges, vertices, graphing, data collection	4-9
GEMS	Stories In Stone	Minerals At Home	minerals, rocks, mineral uses, earth	4-9
GEMS	Stories In Stone	Mohs Hardness Scale	Mohn, hardness, minerals, identifying, classification, crystals	4-9
GEMS	Stories In Stone	Observation and Display of Mystery Rock	minerals, rocks, mineral uses, earth, observation, problem solving	4-9
GEMS	Stories In Stone	Observing Crystal Formation	crystals, geometric shapes, magnifying, salol, observation, temperature, rock formation, problem solving, earth	4-9
GEMS	Stories In Stone	Rock Cycle	rock cycle, rock formation, igneous, metamorphic, sedimentary, compaction, cementation, crystallization, melting, earth, song	4-9
General Science	Science Is….	A Day In The Life of You	patterns, day, instinct, biological needs, problem making, human	K-12
General Science	Science Is….	Air Conditioners	plants, measurement, transpiration, evaporation	K-12
General Science	Science Is….	Air Has Weight	air, measurement, balloons, weight, data collection, temperature	K-12
General Science	Science Is….	At The Speed of Light	light, numbers, measurement, light-year, Earth/Sun relationship	K-12
General Science	Science Is….	Balloon Rockets	balloons, flight, forces, rockets, launch, fuel, Newton's Laws	K-12
General Science	Science Is….	Bend-Ability	human body, exercise, flexibility	K-12
General Science	Science Is….	Best Raft	problem solving, forces, raft building, design,	K-12
General Science	Science Is….	Color Clues	color, chemical reactions, cabbage juice, observation	K-12
General Science	Science Is….	Communication Challenge	scientific method, communication, decision making, senses	K-12
General Science	Science Is….	Constellation Finder	constellations, observation, night sky	
General Science	Science Is….	Dew Point	weather, air, measurement, dew point, temperature, thermometer	K-12
General Science	Science Is….	Duck	senses, brine, scientific method, human body, reaction time	K-12
General Science	Science Is….	Facial Fun	muscles, human body, exercise	K-12
General Science	Science Is….	Foot = Fist	human body, measurement	K-12
General Science	Science Is….	Forest Foray	habitat, plants, soil, insects, measurement	K-12
General Science	Science Is….	Full Glass	water, paperclips, problem solving, measurement	K-12
General Science	Science Is….	Glass Puzzle	water, problem solving	K-12
General Science	Science Is….	Guesstimations	numbers, measurement, estimation, prediction	K-12
General Science	Science Is….	Heavy Finger	balance, dexterity, problem solving	K-12
General Science	Science Is….	Instant 3D	art, measurement, problem solving	K-12
General Science	Science Is….	Keep In Touch	senses, human body, touch, nerves	K-12
General Science	Science Is….	Liquid Layers	density, hot water, cold water, salt water, problem solving, liquids	K-12
General Science	Science Is….	Marble Race	marble, problem solving, race, density, liquids	K-12
General Science	Science Is….	On the Move	problem solving, sun, sundial, observation, measurement, earth, light	K-12
General Science	Science Is….	Out of Your Hands	problem solving, human body, coordination, brain, forces	K-12
General Science	Science Is….	Paper Plane Flight	duration, flight, aeronautics, planes, design, measurement	K-12
General Science	Science Is….	Penny Power	pennies, problem solving, energy, force	K-12

Topic	Book	Activity	Key Words	Grade
General Science	Science Is….	Person Power	problem solving, watts, human body, electricity, energy, measurement	K-12
General Science	Science Is….	Popping Ping Pong	ping pong balls, forces, measurement, golf balls	K-12
General Science	Science Is….	Projectile Launcher	forces, measurement, problem solving, design, launcher	K-12
General Science	Science Is….	Skin Prints	human body, fingerprinting, problem solving	K-12
General Science	Science Is….	Splitting An Atom	problem solving, atoms, oil, energy, states of matter	K-12
General Science	Science Is….	Stuck on You	tape, measurement, problem solving,	K-12
General Science	Science Is….	Take A Powder	problem solving, magnifying, chemical reactions, scientific method, data collection, measurement	K-12
General Science	Science Is….	Tired Muscles	muscles, human body, measurement, problem solving, fatigue test	K-12
General Science	Science Is….	Volcanic Island	problem solving, volcano, measurement, number sense, design, bridges	K-12
General Science	Science Is….	Water	air, chemical reaction, forces, water, coins	K-12
General Science	Science Is….	Your Horoscope	horoscope, probability	K-12
General Science	Zero to Einstein in 60	Cloud in a Bottle	clouds, weather,	K-8
General Science	Zero to Einstein in 60	Loop Plane	airplane, loop plane, design, problem solving	4-12
General Science	Zero to Einstein in 61	Starch Balls	starch, oobleck, polymer, solids, liquids, chemical and physical properties	K-12
Life Science		Free Living and Plant Parasitic Worms	nematodes, biodiversity	7-12
Life Science		How To Make A Plant Press	plants, collections	
Life Science		Water Molds	miscroscope, oomycetes, pseudofungi, microbiology, hyphae, sporangia, zoospores, fungi	6-12
Life Science: Animals	SMART Science	Frog Bingo	bingo, frogs, game	
Life Science: Animals	SMART Science	Frog Origami	design, frog, origami	
Life Science: Animals		Animal Homes Hike	animal homes, habitat, building materials, observation, ants, beaver, birds, honeybees, squirrels, wolverines, yellowjackets	3-6
Life Science: Animals		Bird Watching As An Alternative To Chick Hatching	bird species, bird ID, life cycle, behavior, bird feeders,	2-6
Life Science: Animals		Feathers In The Forest	birds, diet, nesting, habiatat, field study, observation, problem-solving, comparison	k-8
Life Science: Animals		Worm World	body parts, worms, Wendell Worm, crop, pharynx, esophagus, gizzard, intestines	
Life Science: Food and Nutrition	Whiz Kid Activity Packet	Amber Waves of Grain	grain, wheat, quiz	
Life Science: Food and Nutrition	Whiz Kid Activity Packet	Barnyard Brushup	livestock, animal research, quiz	
Life Science: Food and Nutrition	Whiz Kid Activity Packet	Science In Your Shopping Cart	quiz, crops, agriculture,	
Life Science: Food and Nutrition	Whiz Kid Activity Packet	Using The Old Bean	soy bean, quiz,	
Life Science: Human	Gells, Genes and Protein Machines	Getting a Rise Out Of Yeast	baked bread, yeast cells, microscope	k-3
Life Science: Human	Gells, Genes and Protein Machines	Making A Mountain Out of a Molehill	magnifying glass, microscopes, salt,	k-3
Life Science: Human	Gells, Genes and Protein Machines	Now For A Little Culture	microorganisms, bacteria, mold, fungi,	k-3
Life Science: Human	Gells, Genes and Protein Machines	Sites Cell-Dom Seen	onion, elodea, microscope	k-3
Life Science: Human	Gells, Genes and Protein Machines	What's Alive	living, non-living, classification, sorting	k-3
Life Science: Human		Human Body	human body, bones, organs	K-8

Topic	Book	Activity	Key Words	Grade
Life Science: Human		Skeleton and Human Body	skeleton, bones, human body, anatomy, digestive system, organs,	3-12
Life Science: Insects	Adopt An Insect	Insect Challenge Project	insects, scavenger hunt, observation, problem solving	
Life Science: Insects	Adopt An Insect	Scavenger Hunt 1, 2 and 3	insects, scavenger hunt, observation, problem solving	
Life Science: Insects	Learning Page.com	Butterfly Body Parts	antenna, scales, wing, abdomen, thorax, leg, head, insect, butterfly	pk-1
Life Science: Insects	Learning Page.com	Insect Anatomy	antenna, abdomen, thorax, leg, head, insect	pk-1
Life Science: Insects	SMART Science	Glitter Web	glitter, art, design, spider, spider web	
Life Science: Insects	SMART Science	How Do You Feel About Spiders?	spiders, graphing, feelings	
Life Science: Insects	SMART Science	Lily Pad Math	lily pad, pond, frogs, game, dice,	
Life Science: Insects	SMART Science	Make a Spider	spider, shape, art	
Life Science: Insects	SMART Science	Spider words	words, literacy,spider	
Life Science: Insects		Bug Bodies	insects, bugs, art, wings, bodies, design	
Life Science: Insects		Butterfly Mask	cricket, head, insect, art	
Life Science: Insects		Cricket Mask	butterfly, head, insect, art	
Life Science: Insects		Cute Caterpillar	caterpillar, art, design, insect	
Life Science: Insects		Fast Plants Notes	fastplant, life cycle, butterfly, insect, plant, larva, pupa, metamorphosis, adult, space, observation, bottle biology,	
Life Science: Insects		The Fast Plant and its Butterfly	fastplant, life cycle, butterfly, insect, plant, larva, pupa, metamorphosis, adult	
Life Science: Macroinvertebrates		Bug Picking..Is Your Creek Clean or Dirty?	macroinvertebrates, field study, creeks, rivers, data collection, water pollution	
Life Science: Plants	Fast Plants: A Big Idea - Fast Plants, Environment, Heredity and You	Is More Food Better?	plants, heredity, observation, measurement, nutrients, plant growth, plant reproduction, fertilizer, Brassica rapa	7-12
Life Science: Plants	Fast Plants: Farming Fast Plants	Bottle Cap Gardening	Brassica rapa, moss, kalenchoe, biverwort,	7-12
Life Science: Plants	Fast Plants: Farming Fast Plants	Film Can Magnifier	magnifier and scale, mini garden, bottle cap garden, specimin holder, film canisters,	7-12
Life Science: Plants	Fast Plants: Farming Fast Plants	How Many Seeds Can You Produce?	planting, life cycle, exploration flow chart, planting/growing guide, Brassica rapa	7-12
Life Science: Plants	Fast Plants: Farming In Space	Plant Light House	NASA, Brassica rapa, plant growth in space, observation,	7-12
Life Science: Plants	Fast Plants: Scientists Announce First Ever Germinatuon of Seeds Grown In Space	Fast Plants: A Space Odyssey	design challenge, Brassica rapa	7-12
Life Science: Plants	Fast Plants: Scientists Announce First Ever Germinatuon of Seeds Grown In Space	Launching a Seed	Brassica rapa, observation, microgravity	7-12
Life Science: Plants	Fast Plants: Scientists Announce First Ever Germinatuon of Seeds Grown In Space	Pressing Matters	pressing flowers, preserving flowers, plant classification, plant ID	7-12
Life Science: Plants	Fast Plants: Teachers and Students Investigatinv Plants In Space	Is There A Pollution Solution? The Effect of Salt on Fast Plants	salt inflitration, fertilizer, contamination, water cycle	7-12

Topic	Book	Activity	Key Words	Grade
Life Science: Plants	Fast Plants: Teachers and Students Investigatinv Plants In Space	TSIPS Activity: Tumbling In Space	seedlings, orientation, gravitropism	7-12
Life Science: Plants	Fast Plants: Teachers and Students Investigatinv Plants In Space	Understanding the Environment	physical, chemical, biological processes, cycles, light, temperature, organisms, atmosphere, water, humidity, nutrients	7-12
Life Science: Plants	Fast Plants: The Population Explosion	Plant Population Density X Nutrition: Two Variables	plant growth, plant density, plant population,	7-12
Life Science: Plants	Fast Plants: The Population Explosion	Plant Population Density: A Single Variable	Brassicas rapa, single variable, plant growth, plant presses, observation,	7-12
Life Science: Plants	Fast Plants: The Population Explosion	Population Density and Selection: Do The Fit Survive?	plant growth, plant density, plant population,	7-12
Life Science: Plants	SMART Science	My Apple Experiment Book	observation, data collection, journaling, apples, time	
Life Science: Plants	Sustainability - Seeds For Thought	Planning For Plants as Factories	seed structure, seed formation, chemical composition, germinate, mutated seeds, nutrition	6-8
Life Science: Plants	Sustainability - Seeds For Thought	Seeding Sustainability through Science	DNA, genes, Agrobacterium, traits, genetic engineering, plant transformation, dicot, monocot, biotechnology	9-12
Life Science: Plants	Sustainability - Seeds For Thought	Some Secrets of Seeds	seed traits, seed characteristics, identificaiton and classification of seeds,	1-3
Life Science: Plants		Banking On Seeds	cotyledon, embryo, endosperm, genes, genetic fiversity, hydrid, seed bank, seed coat, seed ID,	3-7
Life Science: Plants		Bean Bingo	bingo, beans	
Life Science: Plants		Celebrating Wildflowers	plant parts, plant ID, wildflower, habitat,	
Life Science: Plants		Paper Making	pulp, papermaking	4-12
Life Science: Plants		Plant Pathology: Past to Present	coloring book, Anton DeBary, plant diseases, ergot, potato, coffee, chestnut, wheat, corn, dogwood, bacteria, fungi, banana, apple, pear, fireblight, phytoplasma, viruses, tulips, nematodes, parasites, mistletoe, pathogens,	
Life Science: Plants		Root, Root For Life	plants, roots, fibrous roots, taproots, plant growth	2-6
Life Science: Plants		Seed Surprises	seeds, plants, sprout, observation, plant growth	pk-3
Math	Learning Page	Fantastic February	hearts, valentines, game, problem solving, matching, counting, reading, writing, word recognition, President, Black History	pK-3
Math	Learning Page	Writing Skills	D'Nealian, number recognition, counting, writing skills	pK-K
Math	Learning Page	Oceans FactFile	dolphin, Walrus, great white shark, sea lion, elephant seal, octopus, manta ray, swordfish, hammerhead shark, leatherback turtle, polar bear, emperor penguin, killer whale, blue whale, whale shark, manatee, portuguese man-of-war, sperm whale, sea horse, s	k-3
Math	Learning Page	Giving Thanks	November, leaves, problem solving, patterns, communication, addition, flag, poem, word problems,	pK-3
Math	Learning Page	Tricks and Treats	October, Halloween, communication, counting, sorting, problem solving, symmetry, spelling, word problems	pK-2
Math	Learning Page	Wonderful Winter	word recognition, letter matching, vowel, consonant, weather, compound words, haiku,	pK-3
Math	Learning Page	Marvelous May	Mother's Day, flag, problem solving, counting, matching, word recognition, addition, Memorial Day, antonym, book report	pK-3
Math	Learning Page	Wondrous Weather	word recognition, letter matching, vowel, consonant, weather, compound words, synonym, short story, description	pK-3

Topic	Book	Activity	Key Words	Grade
Math	Learning Page	Time Sheets	clock, minute hand, hour hand, problem solving, analog, digital, hour, half hour, elapsed time, antemeridian, post meridian, matching, five minutes	pK-3
Math	Learning Page	Coin Sheets	penny, Lincoln, cent, counting, nickel, Jefferson, heads, tails, ten cents, dime, Roosevelt, quarter, Washington, dollar,	K-3
Math	Learning Page	Measurement Sheets	inches, length, ruler, foot, yard, conversion, symbols, metric, centimeter, centi, meter, standard measurement, tools, estimation, word problems, non-standard measurement, width, problem solving, height, mile, kilometers, division, addition, multiplicatio	K-3
Math	Learning Page	Calendar Sheets	time, day, week, month, days of the week, writing skills, problem solving, birthday, date, multiplication	K-3
Mathematics magazine	Domino Math	Warm Ups	dominoes, logic, problem solving	k-4
Mathematics magazine	Exploring Math Through Puzzles	Bewitching Cubes	cubes, logic, problem solving, spatial awareness, puzzle	4-12
Mathematics magazine	Exploring Math Through Puzzles	Instant Insanity	cubes, logic, problem solving, spatial awareness, puzzle	4-12
Mathematics magazine	Hundred Penny Pie - AIMS	Hundred Penny Pie	coins, money values, equivalencies, observations, comparison, number sense	
Mathematics magazine	Math Activities With Dominoes	Double-Six Dominos	dominoes, math	K-12
Mathematics magazine	Pattern Animals	Combination CoverUp	geometric shapes, pattern blocks, spatial awareness	K-3
Mathematics magazine	SMART Science	Frog Fun	multiplication, frogs, color, addition, number sense	
Mathematics magazine	Try-A-Tile Set	Match A Tile, Take Away Tiles	number sense, number tiles, reasoning, problem solving, logic, planets, solar system	K-3
Mathematics magazine		Domino Practice	dominoes, problem solving, unifix cubes,	
Mathematics magazine		Grids	coorcinates, grids, graphing, 1/2 cm, 1 cm	
Mathematics magazine		Paper Bead Necklace	shape, necklace, art, beads, design	
Mathematics magazine		Rulers	metric ruler	
Mathematics magazine		Tangram Patterns	tangrams, spatial sense, shapes, animals	
Mathematics magazine		Tangrams - Activity 8	tangrams, spatial sense, shapes,	
Mathematics Teacher magazine	1989 November	Four Labs to Introduce Quadratic Functions	pulley, wire, acceleration, quadratic, lab, graph, discrete data, gravity, parabolic path	7-12
Mathematics Teacher magazine	1989 November	Representing, Solving, and Using Algebraic Equations	Two-pan balance, variables, equations, pictorial representation	7-12
Mathematics Teacher magazine	1989 November	Transition to High School Mathematics	number to variable, specifics to generalization, description to proof, staircase, rods, Miras, mapping, sigma notation	7-12
Mathematics Teacher magazine	1989 November	Designing Dreams in Mathematics	architecture, drawing house plans	7-12
Mathematics Teacher magazine	1989 November	Guessing the Slope Function	Polya technique	7-12
Mathematics Teacher magazine	1989 November	Bisymmetric Matrices: Some Elementary New Problems	symmetric, antisymmetric, linear algebra, closed under operations	7-12
Mathematics Teacher magazine	1989 November	Interesting Area Ratios Within a Triangle	pattern blocks, isometric dot paper	7-12
Mathematics Teacher magazine	1989 November	Fermat's Last Theorem: 1637-1988	prime numbers, Kummer, Fermat, algebraic integers	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1989 November	Napoleon's Waterloo Wasn't Mathematics	military leader, Laplace, Lagrange, Egypt, France, Fourier, math reform,	7-12
Mathematics Teacher magazine	1989 December	Problem Solving- an Attitude as well as a Strategy	Polya, Hadamard, Poincare, attitude importance	7-12
Mathematics Teacher magazine	1989 December	Practical Practice	patterns, basic facts	7-12
Mathematics Teacher magazine	1989 December	Assembling a Mathematical Rectangle	factoring quadratics	7-12
Mathematics Teacher magazine	1989 December	When and How Can We Use Modeling?	mathematical models, modeling in the curriculum	7-12
Mathematics Teacher magazine	1990 February	Box Plots: Basic and Advanced	statistics, box plots, analyzing data	7-12
Mathematics Teacher magazine	1990 February	Why Women Succeed in Mathematics	female role models, Lovelace, Milbanke, Lord Byron, Somerville, Babbage, Hypatia, Noether, first black woman PhD	7-12
Mathematics Teacher magazine	1991 March	Collaboration and Writing in the Mathematics Classroom	critical thinking, writing	7-12
Mathematics Teacher magazine	1991 March	The Mandelbrot Set in the Classroom	computer programming, iterations, complex numbers	7-12
Mathematics Teacher magazine	1991 March	Fractals and Transformations	nature, fractals, Mandelbrot sets, chaos game, Koch Curve, Sierpinski Triangle,	7-12
Mathematics Teacher magazine	1991 March	Improving Students' Understanding of Geometric Definitions	kite definitions, vocabulary, properties of quadrilaterals	7-12
Mathematics Teacher magazine	1991 March	Van Hiele Levels of Geometric Thought Revisited	Netherlands, Soviet math ed reform	7-12
Mathematics Teacher magazine	1991 March	The Probability That a Quadratic Equation Has Real Roots: An Exercise in Problem Solving	parabola, computer program, algorithm, Pascal	7-12
Mathematics Teacher magazine	1991April	A Fractal Excursion	chaos theory, Koch curve, equilateral triangle, area, perimeter	7-12
Mathematics Teacher magazine	1991April	Line and Rotational Symmetry	symmetry, quilts, squares, lines of symmetry, equilateral triangle, patterns	7-12
Mathematics Teacher magazine	1991April	Pascal's Triangle and Fibonacci Numbers	Pascal's Triangle, Fibonacci Sequence,	7-12
Mathematics Teacher magazine	1991April	Dissecting a Circle by Chords through n Points	circle, chord, region, Pascal's triangle, sigma notation	7-12
Mathematics Teacher magazine	1991 May	Digits Count: Significant Digits and Calculators	significant digits, calculator	7-12
Mathematics Teacher magazine	1991 May	Mathematics Education in Britain: An American Viewpoint	British education versus American education	7-12
Mathematics Teacher magazine	1991 May	Algebra Tic-Tac-Times	game	7-12
Mathematics Teacher magazine	1991 May	Bingo in the Mathematics Classroom	game	7-12
Mathematics Teacher magazine	1991 May	Activities to Introduce Maxima-Minima Problems	problem solving, volume of a box, computer program	7-12
Mathematics Teacher magazine	1991 May	Estimating the Volumes of Solid Figures with Curved Surfaces	wedges, curved surfaces, volume	7-12
Mathematics Teacher magazine	1991 May	Pick's Theorem Extended and Generalized	area, polygon, lattice polygon	7-12
Mathematics Teacher magazine	1991 September	No Time for Writing in Your Class?	journals, logs, writing, communication, expository writing, creative writing	7-12
Mathematics Teacher magazine	1991 September	The Sierra Curve-an Introduction to Periodic Concepts	periodic functions, trigonometry, Sierra curve, phase shift, frequency, computer program	7-12
Mathematics Teacher magazine	1991 September	Finding Points of Intersection of Polar-Coordinate Graphs	polar coordinates, computer program	7-12
Mathematics Teacher magazine	1991 October	Writing to Learn Mathematics	writing	7-12
Mathematics Teacher magazine	1991 October	A Holistic Approach to Algebra	sequences, problem solving	7-12
Mathematics Teacher magazine	1991 October	Is the Graph of y=kx Straight?	geometric loci, bidirectrix system	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1991 October	Egyptian Fractions: Ahmes to Fibonacci to Today	history of math, fractions, Fibonacci	7-12
Mathematics Teacher magazine	1991 November	Terror at 3000 Feet	Saxon math	7-12
Mathematics Teacher magazine	1991 November	The Circle and Sphere as Great Equalizers	volume, surface area	7-12
Mathematics Teacher magazine	1991 December	Exhibiting Connections Between Algebra and Geometry	rectangles, area, perimeter, tessellations	7-12
Mathematics Teacher magazine	1991 December	Euclid and Descartes: A Partnership	locus problems, Pythagorean theorem	7-12
Mathematics Teacher magazine	1991 December	Addition of Fractions-the Unrecognized Problem	fractions	7-12
Mathematics Teacher magazine	1991 December	Recursion and the Central Polygonal Numbers	number patterns, polygonal numbers, triangular numbers, hexagonal numbers	7-12
Mathematics Teacher magazine	1991 December	A Diary of Two Problem Solvers	problem solving, pre-service teachers	7-12
Mathematics Teacher magazine	1991 December	Counting Squares	rectangles, area, squares, GCD, problem solving	7-12
Mathematics Teacher magazine	1991 December	Map-coloring Algorithm	US map, 4 color problem	7-12
Mathematics Teacher magazine	1992 January	Games for Developing Mathematical Strategy	games, checkers, Solomon's Game, Nine Men's Morris, Nim-With-Cards	7-12
Mathematics Teacher magazine	1992 February	Mathematical Connections with a Spirograph	artwork, gears, symmetry, divisibility	7-12
Mathematics Teacher magazine	1992 February	Squeal Those Tires	automobile accident reconstruction, cars, mock collision, measurement	7-12
Mathematics Teacher magazine	1992 March	An Application of Matrix Theory	puzzles, matrices, rank	7-12
Mathematics Teacher magazine	1992 March	Euler's Amazing Way to Solve Equations	patterns, Fermat, Euler	7-12
Mathematics Teacher magazine	1992 March	Geographic Constructions	Delaware, Pennsylvania, D.C.	7-12
Mathematics Teacher magazine	1992 March	Graph Coloring Used to Model Traffic Lights	networks, vertices, edges, graphs	7-12
Mathematics Teacher magazine	1992 March	Infinite Sequences: A Logical Extension	repeating decimals	7-12
Mathematics Teacher magazine	1992 March	Matching Garage-Door Openers	probability	7-12
Mathematics Teacher magazine	1992 March	Patterns of Postage-Stamp Production	stamps, data	7-12
Mathematics Teacher magazine	1992 March	A Simple Probability Problem	boy-girl probability, Bayesian analysis	7-12
Mathematics Teacher magazine	1992 March	Trigonometry Drills	trig functions, puzzles, angle of elevation, angle of declination	7-12
Mathematics Teacher magazine	1992 March	Understanding arcsin(sin(x)) and arccos(cos(x))	graphs, inverse trig functions	7-12
Mathematics Teacher magazine	1992 May	Begin Mathematics Class with Writing	writing	7-12
Mathematics Teacher magazine	1992 May	Connecting Logic, Algebra, and Functions in Discrete Mathematics	computers	7-12
Mathematics Teacher magazine	1992 May	Determining Area and Calculating Cost	model, area, project, measurement	7-12
Mathematics Teacher magazine	1992 May	Finding Extrema Without Calculus	quadratics, cubics	7-12
Mathematics Teacher magazine	1992 May	Mathematics in Weighting	cycloid, circle, Hippocrates, Pythagorean Theorem, labs	7-12
Mathematics Teacher magazine	1992 May	Supplementing the Graphing Curriculum	parameters, graphs	7-12
Mathematics Teacher magazine	1992 May	Symmetries of Irregular Polygons	patterns	7-12
Mathematics Teacher magazine	1992 September	The Bug on the Box	diagonal, cube, square, nets, bugs	7-12
Mathematics Teacher magazine	1992 September	Extending the Number Line to Make Connections with Number Theory	prime numbers, number line	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1992 September	Problem Solving with Cubes	spatial reasoning skills,cubes, patterns, views	7-12
Mathematics Teacher magazine	1992 September	The Railroad Track Problem	curve-sketching, numerical methods, graphing calculator	7-12
Mathematics Teacher magazine	1992 September	Start the Year Right-Discover Pick's Theorem	lattice polygons, area, formulas, patterns	7-12
Mathematics Teacher magazine	1992 September	A Visual Approach to Algebra Concepts	pictures, symbols, cubes, discs	7-12
Mathematics Teacher magazine	1992 October	An Abnormal Witch	normal curve, Witch of Agnesi	7-12
Mathematics Teacher magazine	1992 October	Are Seven-Game Baseball Playoffs Fairer?	baseball, model, sports, tree diagram	7-12
Mathematics Teacher magazine	1992 October	Combinatorics Connections: Playoff Series and Pascal's Triangle	combinations, discrete math, games, sports	7-12
Mathematics Teacher magazine	1992 October	Decimals, Rounding and Apportionment	division problems, divisor, history of America	7-12
Mathematics Teacher magazine	1992 October	Folding Perpendiculars and Counting Slope	slope	7-12
Mathematics Teacher magazine	1992 October	The Many Uses of Algebraic Variables	functiion, variable, Leibnitz, Newton, quadratic functions	7-12
Mathematics Teacher magazine	1992 October	Mathematical Modeling and the Presidential Election	presidential election, models, sigma notation	7-12
Mathematics Teacher magazine	1992 October	Solving the Homework Dilemma	homework policy	7-12
Mathematics Teacher magazine	1992 October	The Toothpick Problem and Beyond	patterns, geometry vocabulary	7-12
Mathematics Teacher magazine	1992 October	Where is my reference angle?	hands-on manipulative for trig	7-12
Mathematics Teacher magazine	1992 November	Playing With Blocks: Visualizing Functions	cubes, functions, patterns	7-12
Mathematics Teacher magazine	1992 December	Understanding Fraction Multiplication	fractions, area model, array model	7-12
Mathematics Teacher magazine	1993 January	A Quadrilateral Hierarchy to Facilitate Learning in Geometry	quadrilaterals, polygons	7-12
Mathematics Teacher magazine	1993 February	If Pythagoras had a Geoboard	Geoboards, lattice polygons	7-12
Mathematics Teacher magazine	1993 March	Area and Perimeter Connections	area, perimeter, rectangles	7-12
Mathematics Teacher magazine	1993 March	Conventional Cryptography	cryptography, encryption, matrices	7-12
Mathematics Teacher magazine	1993 April	From Algebra to Calculus- a Tonka Toy Truck Does the Trick	acceleration, velocity, motion, toy truck	7-12
Mathematics Teacher magazine	1993 April	Pythagorean Dissection Puzzles	Pythagorean Theorem	7-12
Mathematics Teacher magazine	1993 May	Constructions with Obstructions Involving Arcs	Geometry, constructions, compass, pond	7-12
Mathematics Teacher magazine	1993 May	Cube Challenge	cubes, nets	7-12
Mathematics Teacher magazine	1993 May	Daily-Quiz Sheet	teaching tip	7-12
Mathematics Teacher magazine	1993 May	Exploring Different Dice	graphs, die	7-12
Mathematics Teacher magazine	1993 May	Mathematics and the American Flag	flag, stars, prime factors, tables	7-12
Mathematics Teacher magazine	1993 May	Proportional Reasoning	comparisons, qualitative	7-12
Mathematics Teacher magazine	1993 May	The Shape of a Baseball Field	sports, baseball, ellipse, hyperbola, cosine, secant, polar coordinates, area	7-12
Mathematics Teacher magazine	1993 May	Square Circles	metrics, square, circles, taxi-cab, distance	7-12
Mathematics Teacher magazine	1993 September	America's Pastime	tables, data,sports statistics	7-12
Mathematics Teacher magazine	1993 September	A Geometrical Approach to the Six Trigonometric Ratios	trig ratios	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1993 September	Hidden Behaviors in Graphs	graphing resolution	7-12
Mathematics Teacher magazine	1993 September	Humanize Your Classroom with the History of Mathematics	Cardano, Monge, Babylonian base-60 math	7-12
Mathematics Teacher magazine	1993 September	Involve the Community	grocery store, architecture	7-12
Mathematics Teacher magazine	1993 September	Ladders and Saws	geometry, vocabulary	7-12
Mathematics Teacher magazine	1993 September	Parametric Equations: Push 'Em Back, Push 'Em Back, Way Back	rise, run, algebra	7-12
Mathematics Teacher magazine	1993 October	A Mathematical Model for the Height of a Satellite	measurement, models, satellite, circles	7-12
Mathematics Teacher magazine	1993 October	The Golden Ratio: A Golden Opportunity to Investigate Multiple Representations of a Problem	proportions, tables,	7-12
Mathematics Teacher magazine	1993 October	Graphing Powers and Roots of Complex Numbers	DeMoivre's Theorem, graph, trig functions, spiral	7-12
Mathematics Teacher magazine	1993 October	Looking at sigma Geometrically	algebraic sums, cubes, volume, sigma notation	7-12
Mathematics Teacher magazine	1993 October	The Use of Dot Paper in Geometry Lessons	lattice polygons, geometry	7-12
Mathematics Teacher magazine	1993 November	Analyzing Energy and Resource Problems: An Interdisciplinary Approach with Mathematical Modeling	natural gas, mathematical modeling, graphs, fossil fuels, exponential growth	7-12
Mathematics Teacher magazine	1993 November	Building Fractal Models with Manipulatives	fractals, similar figures, tiles, cubes, array, logarithms	7-12
Mathematics Teacher magazine	1993 November	The Case of Video Viewing, Reading, and Writing in Mathematics Class: Solving the Mystery	mystery stories, problem solving	7-12
Mathematics Teacher magazine	1993 November	Connections: A Lottery, a Computer, and the Number e	random number table, lottery, computer programs	7-12
Mathematics Teacher magazine	1993 November	Illustrating Mathematical Connections: Two Proofs That Only Five Regular Polyhedra Exist	proofs, geometry, regular polydrons, regular polyhedra, graphs, trees, networks, Euler's formula	7-12
Mathematics Teacher magazine	1993 November	Implementing the Discrete Mathematics Standards: Focusing on Recursion	sets, functions, relations, matrix algebra, combinatorics, finite probability, graph theory, finite differences, recurrence relations, logic, mathematical induction, algorithmic thinking, Pascal's Triangle, Tower of Hanoi	7-12
Mathematics Teacher magazine	1993 November	The Incredible Shrinking Can: Mathematics of Diminishing Returns Revealed	juice, cans, banking, business math	7-12
Mathematics Teacher magazine	1993 November	Mathematics & Medical Indexes: A Life-saving Connection	graphs, medicine, indexes	7-12
Mathematics Teacher magazine	1993 November	Pixy Stix Segments and the Midpoint Connection	midpoints, compass, straightedge, protractor, cake, triangles, conjecture	7-12
Mathematics Teacher magazine	1993 November	Using the TI-81 to Analyze Sports Data	graphing calculator, sports, data, algebra	7-12
Mathematics Teacher magazine	1993 December	Aligning Assessment with the NCTM's Curriculum Standards	functions, relations, even functions, odd functions	7-12
Mathematics Teacher magazine	1993 December	Applying the Standards to the College Mathematics Classroom: Ideas and Obstacles	worthwhile mathematical tasks, calculus, nonEuclidean geometry, statistics	7-12
Mathematics Teacher magazine	1993 December	Blackstone's Mathmagic	sums, Gauss method, Magic Squares	7-12
Mathematics Teacher magazine	1993 December	Exploring Regression with a Graphing Calculator	linear regression, tables, scatterplot	7-12
Mathematics Teacher magazine	1993 December	The Generality of a Simple Area Formula	polygons, circles, inscribed circles, area formulas	7-12
Mathematics Teacher magazine	1993 December	Graphing a Solid: A Classroom Activity	3-D graphing	7-12
Mathematics Teacher magazine	1993 December	The Marble-Sifter: A Half-Life Simulation	half-life, computer program	7-12
Mathematics Teacher magazine	1993 December	Mathematical Modeling in a Feast of Rabbits	Fibonacci rabbit problem, table, patterns	7-12
Mathematics Teacher magazine	1993 December	Playing "Twenty Questions" with Attribute Blocks	tree diagram, attribute blocks	7-12
Mathematics Teacher magazine	1993 December	Some Surprising Probabilities from Bingo	Bingo, game, probability, graphs, tables	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1993 December	What is a Quadrilateral?	quadrilaterals, definitions, vocabulary	7-12
Mathematics Teacher magazine	1994 January	Can You Graph x^5+xy=x^3+y^3?	graph, computer program, symmetry, domain, asymptotes	7-12
Mathematics Teacher magazine	1994 January	The Expected Value and the Wheel of Fortune Game	letters, expected value, events, probability	7-12
Mathematics Teacher magazine	1994 January	An Introduction to the Concept of Slope	metersticks, slope, algebra, trigonometry, calculus, geometry, steepness, ramp, walkway	7-12
Mathematics Teacher magazine	1994 January	Investigating Absolute-Value Equations with the Graphing Calculator	graphing calculator, absolute value equations, solutions, etraneous solution	7-12
Mathematics Teacher magazine	1994 January	Lost Trigonometry Class and the Hidden Treasure	compass readings, angle measurement, metric measurement, scale drawings, trig functions, Pythagorean theorem, problem solving	7-12
Mathematics Teacher magazine	1994 January	Making Connections by Using Molecular Models in Geometry	science, chemistry compounds, crystal lattice, toothpicks, tetrahedron sphere	7-12
Mathematics Teacher magazine	1994 January	Seeing b in y=ax^2 +bx+c	quadratics, parabolas, graphs	7-12
Mathematics Teacher magazine	1994 January	Using Problems to Implement the NCTM's Professional Teaching Standards	problem solving, sigma notation, rabbits, geometric series	7-12
Mathematics Teacher magazine	1994 February	Deconstructing Constructivism	drill, Dewey, Piaget, colored chips	7-12
Mathematics Teacher magazine	1994 February	Geometry and Poetry	writing, language arts	7-12
Mathematics Teacher magazine	1994 February	If the Product of Two Numbers is Zero	writing	7-12
Mathematics Teacher magazine	1994 February	Integrating Writing and Cooperative Learning in the Mathematics Class	writing, group-work, cooperative learning	7-12
Mathematics Teacher magazine	1994 February	Learning About Calculus Learning	derivative, derivative sketches, functions, integrals	7-12
Mathematics Teacher magazine	1994 February	Perimeters, Patterns, and Conjectures	tiles, minimum perimeter, maximum perimeter	7-12
Mathematics Teacher magazine	1994 February	Pi Day	contests, poster, model, puzzle, challenge, essay	7-12
Mathematics Teacher magazine	1994 February	Teaching Middle School Students with Diverse Cultural Backgrounds	Haitian, ELL, ESL	7-12
Mathematics Teacher magazine	1994 February	Using a Surface Triangle to Explore Curvature	Euclid, surface, geodesic triangle, angle sum	7-12
Mathematics Teacher magazine	1994 February	Using Technology to Understand the Jury Decision-making Process	Mathcad, Friedman, Walbert	7-12
Mathematics Teacher magazine	1994 March	Copy That Homework	homework policy	7-12
Mathematics Teacher magazine	1994 March	Geometric Transformations, Part 1	grid paper, vocabulary, translations, rotations, reflections	7-12
Mathematics Teacher magazine	1994 March	The Magic of Mathematics	cards, Fibonacci, area	7-12
Mathematics Teacher magazine	1994 March	Probability, Problem Formulation, and Two-Player Games	experimental probability, theoretical probability, computer program, conjectures, games	7-12
Mathematics Teacher magazine	1994 March	Using Logarithms to Explore Power and Exponential Functions	conjectures, power functions, exponential functions, oscillations, springs, computer program, table, graph, graphing calculator	7-12
Mathematics Teacher magazine	1994 March	What Manufacturers Say About a Max/Min Application	cylinder, volume, measurement	7-12
Mathematics Teacher magazine	1994 March	When Is a Quadrilateral a Parallelogram?	vocabulary, geometry, quadrilateral, polygon	7-12
Mathematics Teacher magazine	1994 April	Albrecht Durer's Renaissance Connections between Mathematics and Art	Renaissance, art, Durer, compass, polyhedron, magic square	7-12
Mathematics Teacher magazine	1994 April	Ants, Tunnels, and Calculus: An Exercise in Mathematical Modeling	mathematical models, insects,	7-12
Mathematics Teacher magazine	1994 April	Are Most Fractions Reduced?	dice, tables, prime numbers, coin toss	7-12
Mathematics Teacher magazine	1994 April	Check-Digit Schemes	ISBN numbers, UPC symbols	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1994 April	Geometric Transformations, Part 2	grid paper, vocabulary, translations, rotations, reflections	7-12
Mathematics Teacher magazine	1994 April	Investigating Circles and Spirals with a Graphing Calculator	patterns, polygons, circles, spirals	7-12
Mathematics Teacher magazine	1994 April	The Sidesplitting Story of the Midpoint Polygon	triangles, quadrilaterals, Mira, ratio, proportion, area, polygons	7-12
Mathematics Teacher magazine	1994 April	Teaching Proability through Modeling Real Problems	China, China's birth policy, problem solving, bar graphs, coin flip	7-12
Mathematics Teacher magazine	1994 April	Using Algebra in an Accounting Practice	stock, depreciation, interest, salary, table, spreadsheets	7-12
Mathematics Teacher magazine	1994 April	Using Lined Paper to Make Discoveries	measurement, parallel lines	7-12
Mathematics Teacher magazine	1994 May	A.I.M.S. in the Classroom	Mark Twain, Hlton College, P.S. Wilson, Andrew Gardiner, Bernard Bagnall, Jerome Bruner	7-12
Mathematics Teacher magazine	1994 May	A Discrete Analysis of "Final Jeopardy"	Jeopardy, game, formulas, inequalities	7-12
Mathematics Teacher magazine	1994 May	Golden Triangles, Pentagons, and Pentagrams	recursion, vertices, golden spiral, compass	7-12
Mathematics Teacher magazine	1994 May	Introducing the Derivative through the Iteration of Linear Functions	derviative, tangent line, secant lines, fixed value	7-12
Mathematics Teacher magazine	1994 May	Nested Platonic Solids: A Class Project in Solid Geometry	Platonic Solids, tetrahedron, cube, dodecahedron, octahedron	7-12
Mathematics Teacher magazine	1994 May	Portfolio Assessment: Making It Work for the First Time	Portfolios, rubric	7-12
Mathematics Teacher magazine	1994 May	Trigonometry for Non-Trigonometry Students	patterns, tables	7-12
Mathematics Teacher magazine	1994 May	Using Similarity to Find Length and Area	similar polygons, scaling factor, spirals in triangles, sprials in squares, area of regular polygons	7-12
Mathematics Teacher magazine	1994 September	Analyzing Data Relating to the Challenger Disaster	shuttle, O-rings, Challenger, tables, graphs	7-12
Mathematics Teacher magazine	1994 September	Creative Teaching will Produce Creative Students	perimeter, area, functions, tables, guess-and-test, graphs	7-12
Mathematics Teacher magazine	1994 September	Exploratory Geometry-Let the Students Write the Text!	pushpins, corkboard, straws, polyhedra, polygons	7-12
Mathematics Teacher magazine	1994 September	Relating to Graphs in Introductory Algebra	graphs, Walk This Way, story graphs, elapsed time	7-12
Mathematics Teacher magazine	1994 September	Research on Graphing Calculators	technology, graphing calculators, mathematical modeling	7-12
Mathematics Teacher magazine	1994 September	What Gets Graded is What Gets Valued	grading policy	7-12
Mathematics Teacher magazine	1994 November	Animating Geometry Discussions with Flexigons	flexigons, straws, congruent triangles	7-12
Mathematics Teacher magazine	1994 November	Folding n-pointed Stars and Snowflakes	construction, snowflakes, paper folding	7-12
Mathematics Teacher magazine	1994 November	The Functions of a Toy Balloon	volume, diameter, circumference	7-12
Mathematics Teacher magazine	1994 November	Sherlock Holmes, Master Problem Solver	Sherlock Holmes, Watson, Moriarity	7-12
Mathematics Teacher magazine	1994 November	Teaching Relationships between Area and Perimeter with The Geometer's Sketchpad	area, perimeter, technology, dimensions, table, length, polygons	7-12
Mathematics Teacher magazine	1994 December	Demystifying Polar Graphing	polar graphs, trig graphs, auxiliary graphs	7-12
Mathematics Teacher magazine	1994 December	How Much Does Camouflage Help?	moths, environment, bar graphs	7-12
Mathematics Teacher magazine	1994 December	Mathematical Ties That Bind	Father's Day, ties, writing, knots, neckties, bar graphs	7-12
Mathematics Teacher magazine	1995 January	Building Mathematical Models of Siomple Harmonic and Damped Motion	oscillations, spring, equilibrium, harmonic motion, damped motion model	7-12
Mathematics Teacher magazine	1995 February	Discrete Mathematics and Historical Analysis: A Study of Magellan	Graph Theory, Magellan	7-12
Mathematics Teacher magazine	1995 May	From Drawing to Construction with The Geometer's Sketchpad	technology, circles, construction	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1995 May	Time for Trigonometry	periodic functions, trigonometry, graphs, tables	7-12
Mathematics Teacher magazine	1995 September	Climbing Around on the Tree of Mathematics	mathematicians, graphing calculator, technology	7-12
Mathematics Teacher magazine	1995 September	Conjectures in Geometry and The Geometer's Sketchpad	conjectures, power functions, exponential functions, oscillations, springs, computer program, table, graph, graphing calculator	7-12
Mathematics Teacher magazine	1995 September	Enhancing Mathematics Learning with Open-Ended Questions	open-ended questions, assessment	7-12
Mathematics Teacher magazine	1995 September	Inclusion of African american Students in Mathematics Classrooms: Issues of Style, Curriculum, and Expectations	learning styles	7-12
Mathematics Teacher magazine	1995 September	A Visual Approach to Deductive Reasoning	venn diagrams, reasoning	7-12
Mathematics Teacher magazine	1995 October	Exploring Three- and Four-Dimensional Space	hypercube, dimensions, manipulatives, concrete models, 4-space, homology	7-12
Mathematics Teacher magazine	1995 November	Rethinking the first Two Years of High School Mathematics with the UCSMP	high school math	9-12
Mathematics Teacher magazine	1995 December	Bringing Pythagoras to Life	games, Pythagorean Theorem	7-12
Mathematics Teacher magazine	1996 January	The Case of Trapezoidal Numbers	area, trapezoidal numbers	7-12
Mathematics Teacher magazine	1996 January	A Graphical Approach to the Quadratic Formula	quadratics, parabolas	7-12
Mathematics Teacher magazine	1996 January	Illustrating Mathematical Connections: A Geometric Proof of Euler's Theorem	Euler's formula, polyhedra	7-12
Mathematics Teacher magazine	1996 January	Trap a Surprise in an Isosceles Trapezoid	geometry, isosceles trapezoid	7-12
Mathematics Teacher magazine	1996 February	The Incredible Three-by-Five Card	index card, area, perimeter, similar triangles, Pythagorean theorem	7-12
Mathematics Teacher magazine	1996 February	The Inverse of a Function	functions, inverse	7-12
Mathematics Teacher magazine	1996 February	Understanding the Composites	functions, domain, range	7-12
Mathematics Teacher magazine	1996 February	Using Clock Arithmetic to Send Secret Messages	modular arithmetic, clock arithmetic, primes, number theory	7-12
Mathematics Teacher magazine	1996 March	Folded Paper, Dynamic Geometry, and Proof: A Three-Tier Approach to the Conics	ellipse, circle	7-12
Mathematics Teacher magazine	1996 April	Group Theory: It's a SNAP	group theory, rubberbands, algebra	7-12
Mathematics Teacher magazine	1996 April	How High Is the Water Tower?	water tower, triangles, sphere, angles	7-12
Mathematics Teacher magazine	1996 April	Making Connections: Spatial Skills and Engineering Drawings	isometric drawings, spatial sense	7-12
Mathematics Teacher magazine	1996 April	Perimeters, Patterns, and Pi	Pi, perimeter, area	7-12
Mathematics Teacher magazine	1996 April	Some Colorful Mathematics	triangulation, polygons	7-12
Mathematics Teacher magazine	1996 May	Morgan's Theorem	triangle, colloquia by teenager	7-12
Mathematics Teacher magazine	1996 September	Teaching Applications: Will the Pendulum of Reform Swing Too Far?	math reform	K-12
Mathematics Teacher magazine	1996 September	Where Are We?	space, planets	7-12
Mathematics Teacher magazine	1996 November	Pentagrams and Spirals	golden ratio	7-12
Mathematics Teacher magazine	1996 December	Cryptography: Cracking Codes	cryptography, conjectures	7-12
Mathematics Teacher magazine	1998 February	Counting Penguins	dots on cards, random coordinates, table, frequency, box plot	7-12
Mathematics Teacher magazine	1998 February	The Dating Game	Fibonacci, golden-ratio, dates, primes, powers	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1998 February	Finding Buried Treasures-An Application of the Geometer's Sketchpad	technology, pirates, Geometer's Sketchpad, distance	7-12
Mathematics Teacher magazine	1998 February	Focusing on Worthwhile Mathematical Tasks in Professional Development: Using a Task from the National Assessment of Educational Progress	table, tax rates, worthwhile tasks	7-12
Mathematics Teacher magazine	1998 February	Fractal Cards: A Space for Exploration in Geometry and Discrete Mathematics	fractals, discrete math, computer program, iterations, Sierpinski gasket card, sigma notation, Pythagorean Theorem	7-12
Mathematics Teacher magazine	1998 February	Introducing the Variable through Pattern Exploration	variables, patterns, tables	7-12
Mathematics Teacher magazine	1998 February	Investigating Polygonal Areas: Making Conjectures and Proving Theorems	polygons, conjectures, theorems	7-12
Mathematics Teacher magazine	1998 February	Keep Counting Those Boxes-There's More	squares, rectangles, checkerboard	7-12
Mathematics Teacher magazine	1998 April	The Case for Chaos	Mandelbrot, fractal, iterations, attractor, Sierpinski triangle, Julia sets	7-12
Mathematics Teacher magazine	1998 April	The Conic Sections in Taxicab Geometry: Some Investigations for High School Students	taxicab geometry, distance, metric	7-12
Mathematics Teacher magazine	1998 April	Discovering a Geometric Volume Relationship in Calculus	volume, quadratics, cylinder, shell method,	7-12
Mathematics Teacher magazine	1998 April	The Divisibility of x^n-y^n by x-y: A Constructive Example	base-ten blocks, divisibility	7-12
Mathematics Teacher magazine	1998 April	Geoboard Quadrilaterals	spatial visualization, rotations, reflections, translations, quadrilaterals	7-12
Mathematics Teacher magazine	1998 April	Paving the Way to Algebraic Thought Using Residue Designs	string art, tables, modulus, computer program	7-12
Mathematics Teacher magazine	1998 April	Sediment in Lake Coeur d'Alene, Idaho	natural resources, sedimentation, graphs	7-12
Mathematics Teacher magazine	1998 May	The Cevian Problem	triangles, patterns, differences, formulas, parallel-lines problem, cubical corner problem, hex-number problem	7-12
Mathematics Teacher magazine	1998 May	An EXCELlent Bridge to Algebra	technology, Excel spreadsheets, patterns, formulas, algebra	7-12
Mathematics Teacher magazine	1998 May	Geometry in Mangbetu Design	iterations, fractals, Africa	7-12
Mathematics Teacher magazine	1998 May	The Navigator in the Classroom	sailboat, navigation, map, trigonometric functions, great circle, computer program	7-12
Mathematics Teacher magazine	1998 May	Probability, Matrices, and Bugs in Trees	trees, bugs, matrices	7-12
Mathematics Teacher magazine	1998 May	Teaching the Language of Mathematics	language, mathematical illieteracy	7-12
Mathematics Teacher magazine	1998 September	Dice and Disease in the Classroom	dice, tables, projects, infection rate, variations, graphs	7-12
Mathematics Teacher magazine	1998 September	Locus of Triangle Vertices	geometry, algebra, graphs	7-12
Mathematics Teacher magazine	1998 September	Three-Rows Tabular Method	integration	7-12
Mathematics Teacher magazine	1998 September	Up the Creek With a Paddle	water, geography, project, floods, graphs, assessment	7-12
Mathematics Teacher magazine	1998 September	Visualizing Cost, Revenue, and Profit	slope, finances	7-12
Mathematics Teacher magazine	1998 November	Can Computers Be Used to Teach Proofs?	Computer Algebra Systems, Geometer's sketchpad, technology, vocabulary	7-12
Mathematics Teacher magazine	1998 November	Characterizing Students' Understandings of Mathematical Proof	proof, proof in high school	7-12
Mathematics Teacher magazine	1998 November	Forest Fires, Oil Spills, and Fractal Geometry: An Investigation in Two Parts	cellular automata, iteration, fractals, random numbers	7-12
Mathematics Teacher magazine	1998 November	I Would Consider the Following to Be a Proof….	prealgebra, algebra, geometry, trigonometry, calculus	7-12
Mathematics Teacher magazine	1998 November	Ideas for Developing Students' Reasoning: A Hungarian Perspective	conjectures, true-false questions, flawed arguments, proof by contradiction, induction, deductive method, Hungary	7-12
Mathematics Teacher magazine	1998 November	Mentoring Beginning Teachers	new teacher, mentor	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	1998 November	On Proofs and Their Performance as Works of Art	proof, Erdos, H. Wu, aesthetic	7-12
Mathematics Teacher magazine	1998 November	Proof by Contradiction and the Electoral College	electoral votes, states, presidential election, sigma notation	7-12
Mathematics Teacher magazine	1998 November	Proof in Modern Geometry	Geometer's Sketchpad, technology, proof in high school	7-12
Mathematics Teacher magazine	1998 November	Prove It!	proof in high school, proof in middle school	7-12
Mathematics Teacher magazine	1998 November	Sharing Ideas about Teaching Proving	China, proofs	7-12
Mathematics Teacher magazine	1998 November	Types of Students' Justifications	proof, patterns	7-12
Mathematics Teacher magazine	1998 November	A Unified Framework for Proof and Disproof	odd integer proof, filling in the gaps, logic, proof by contradiction, proof in high school, Vygotsky	7-12
Mathematics Teacher magazine	1998 December	A Discourse on Discourse: Wrestling with Teaching Rational Equations	problem solving, rational equations	7-12
Mathematics Teacher magazine	1998 December	Shedding Light on the Subject	dolphins, underwater, ocean, light intensity, Beer-Lambert's Law, CBL, data, experiments, exponential decay	7-12
Mathematics Teacher magazine	1998 December	Using ROOTine Problems for Group Work in Geometry	angle sum of a triangle, area of equivalent figures	7-12
Mathematics Teacher magazine	1998 December	Using Rubrics in High School Mathematics Courses	rubrics, assessment, anchor sets	7-12
Mathematics Teacher magazine	1999 January	Nonperiodic Tilings: The Irrational Numbers of the Tiling World	tesselations, irrational numbers	7-12
Mathematics Teacher magazine	1999 February	The Amazing Octacube	polyhedra, table, faces, edges, vertices, Euler's formula, nets	7-12
Mathematics Teacher magazine	1999 February	Area of Spherical Triangles	noneuclidean geometry, spherical geometry, great circles, sector, circle, lune	7-12
Mathematics Teacher magazine	1999 February	Forest Fires, Oil Spills, and Fractal Geometry: An Investigation in Two Parts	fractals, mathematical models, cellular automata, Sierpinski triangle	7-12
Mathematics Teacher magazine	1999 February	The Life Expectancy of a Jawbreaker: An Application of the Composition of Functions	circles, surface area, volume, graphs, table	7-12
Mathematics Teacher magazine	1999 February	Making Music with Mathematics	music, graph, graphing calculators, technology, frequency, sine, trig functions	7-12
Mathematics Teacher magazine	1999 February	Multiple Representations for Pattern Exploration with the Graphing Calculator and Manipulatives	representations, graphs, sigma notation, staircase, matrices, cubes	7-12
Mathematics Teacher magazine	1999 February	Promote Systems of Linear Inequalities with Real-World Problems	legos, programming, product-mix problem, graphs	7-12
Mathematics Teacher magazine	1999 March	Exploding the Ellipse	ellipse, parabola	7-12
Mathematics Teacher magazine	1999 March	Fractals in High School: Exploring a New Geometry	fractals, Cantor Set, Mandelbrot, Koch curve, iteration, infinite perimeter, bounded area	7-12
Mathematics Teacher magazine	1999 April	Exploring Fractals in the Classroom	fractals, Sierpinski, Koch snowflake, fractal tree, Mandelbrot	7-12
Mathematics Teacher magazine	1999 April	Graphing for All Students	graphs, stories	7-12
Mathematics Teacher magazine	1999 April	The Mathematics of the Spirograph	spirograph, sine, cosine	7-12
Mathematics Teacher magazine	1999 April	The Oak Leaf: Connecting Geometry and Biology	Pick's Theorem, leaf, area	7-12
Mathematics Teacher magazine	1999 April	The Vortex Tessellation	tesselations, birds	7-12
Mathematics Teacher magazine	1999 May	Build a Sierpinski Pyramid	Sierpinski, Koch, triangle	7-12
Mathematics Teacher magazine	1999 May	A Survey on the Use of Writing-to-Learn in Mathematics Classes	writing, Bruner	7-12
Mathematics Teacher magazine	1999 October	Exploring Hyperbolic Geometry with The Geometer's Sketchpad	Hyperbolic geometry, technology, Geometer's Sketchpad, circle, axioms, Poincare disk	7-12
Mathematics Teacher magazine	1999 October	Why Not Three Dimensions?	3-D geometry, rotations	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2000 May	The Spaghetti Problem Problem	triangle inequality	7-12
Mathematics Teacher magazine	2000 May	Using Hooke's Law to Explore Linear Functions	Hooke's Law	7-12
Mathematics Teacher magazine	2000 September	Using Homemade Algebra Tiles to Develop Algebra and Prealgebra Concepts	algebra tiles	7-12
Mathematics Teacher magazine	2000 October	Generalized Fibonacci Sequences	Fibonacci, golden ratio	7-12
Mathematics Teacher magazine	2000 December	Cubic Polynomials	cubic polynomials, graphing	7-12
Mathematics Teacher magazine	2000 December	Doing Mathematics with Bicycle Gear Ratios	gears	7-12
Mathematics Teacher magazine	2000 December	The Evolving Role of Women in Mathematics	women in math	7-12
Mathematics Teacher magazine	2001 January	Gloria Hewitt: Mathematician	Gloria Hewitt, Women in Math	9-12
Mathematics Teacher magazine	2001 January	Is the Derivative of a Product The Product of the Derivatives?	calculus, derivatives	9-12
Mathematics Teacher magazine	2001 January	Mathematics in Tribal Philippines and Other Societies in the South Pacific	Philippines	9-12
Mathematics Teacher magazine	2001 January	Promoting Conceptual Understanding of Matrices	matrices	9-12
Mathematics Teacher magazine	2001 February	Beyond the Golden Ratio: A Calculator-Based Investigation	Golden Ratio	9-12
Mathematics Teacher magazine	2001 February	Dinosaurs, Dinosaur Eggs, and Probability	Dinosaurs	9-12
Mathematics Teacher magazine	2001 March	Pythagorean Triples from Harmonic Sequences	Pythagorean Triples	9-12
Mathematics Teacher magazine	2001 September	Irrational Numbers on the Number Line: Perfectly Placed	irrational numbers	9-12
Mathematics Teacher magazine	2001 September	Less Is Sometimes More	pencils, plastic bags, calculator	9-12
Mathematics Teacher magazine	2001 September	The Most Magical of All Magic Squares	magic squares	9-12
Mathematics Teacher magazine	2001 September	Searching Families as a Source of Surprise	systems quadratics	9-12
Mathematics Teacher magazine	2001 September	Teaching Mathematical Induction: An Alternative Approach	induction	9-12
Mathematics Teacher magazine	2001 December	Black Dots: Newton's Method and a Simple One-Dimensional Fractal	Newton's method, fractals, computer program	7-12
Mathematics Teacher magazine	2001 December	Mathematics Didn't Just Happen	Pythagoras, Thales of Miletus, Al-Khowarizmi, Euclid, Fibonacci, Galileo, Descartes, Fermat, Kepler, Newton Napier, Leibniz, Bernoulli	7-12
Mathematics Teacher magazine	2002 March	A Multilayered Maximum-Minimum Problem	calculus, derivative, lake	9-12
Mathematics Teacher magazine	2002 March	So That's Wny 22/7 Is Used for Pi!	Pi, calculator	9-12
Mathematics Teacher magazine	2002 March	Sports and Distance-Rate-Time	baseball	9-12
Mathematics Teacher magazine	2002 September	Electricians Need Algebra, Too	Electricians, Algebra	9-12
Mathematics Teacher magazine	2002 September	Exploring Functions: A Calculator Game	functions, calculators	9-12
Mathematics Teacher magazine	2002 September	Letter from India: Secondary School Mathematics in Goa	India	9-12
Mathematics Teacher magazine	2002 September	Representations in Calculus: Two Contrasting Cases	calculus, derivative, graphs	9-12
Mathematics Teacher magazine	2002 September	A Snowflake Project: Calculating, Analyzing, and Optimizing with the Kockh Snowflake	fractals, snow flakes, geometry	9-12
Mathematics Teacher magazine	2003 October	The Area under a Curve: Conjecturing the Fundamental Theorem of Calculus	calculus, area under a curve	9-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2003 November	Fostering Mathematical Curiosity: Highlighting the Mathematics	triangles, equilateral triangles, altitude, area, quadrilateral	7-12
Mathematics Teacher magazine	2003 November	Transition to a Problem-Solving Curriculum	problem solving, vocabulary	7-12
Mathematics Teacher magazine	2003 December	Let's Play Plinko: A Lesson in Simulations and Experimental Probabilities	probability	9-12
Mathematics Teacher magazine	2003 December	Teaching Algebra to Students with Learning Disabilities	Learining Disabilities	9-12
Mathematics Teacher magazine	2004 January	Geoboard Areas: Students' Remarkable Ideas	Geoboard, Area	9-12
Mathematics Teacher magazine	2004 January	Promoting Learning through Inquiry	inquiry	9-12
Mathematics Teacher magazine	2004 January	Using Conjectures to Teach Students the Role of Proof	proof	9-12
Mathematics Teacher magazine	2004 January	Why Is Square Root 25 Not + - 5?	square root	9-12
Mathematics Teacher magazine	2004 February	Demonstrating Boolean Logic Using Simple Electrical Circuits	electricity, Boolean Logic	9-12
Mathematics Teacher magazine	2004 February	Is It Always True: From Detecting Patterns to Forming Conjectures to Constructing Proofs	proofs	9-12
Mathematics Teacher magazine	2004 March	Using Geometry Software to Revisit the Ellipse	ellipse	7-12
Mathematics Teacher magazine	2004 April	A-B-C, 1-2-3	Scrabble, game	7-12
Mathematics Teacher magazine	2004 April	The Triangles of aristarchus	moon, Earth, sun	7-12
Mathematics Teacher magazine	2004 May	If At First You Don't Succeed… Test, Test Again (Not!)	K-12 testing	7-12
Mathematics Teacher magazine	2004 May	Pick's Theorem: What A Lemon!	Pick's Theorem, lattice polygons	7-12
Mathematics Teacher magazine	2004 May	Using Graphing Calculators to Model Real-World Data	TI-83 graphing calculator	7-12
Mathematics Teacher magazine	2004 August	Building Mathematical Maturity in Calculus: Teaching Implicit Differentiation through a Review of Functions	implicit differentiation	7-12
Mathematics Teacher magazine	2004 August	The Chebyshev Polynomials: Patterns and Derivation	polynomials	7-12
Mathematics Teacher magazine	2004 August	Discovering and Exploring Mandebrot Set Points with a Graphing Calculator	Mandelbrot, fractal, iterations, computer program	7-12
Mathematics Teacher magazine	2004 September	Copernican Mathematics: Calculating Periods and Distances of the Planets	planets	7-12
Mathematics Teacher magazine	2004 September	A Specific Construction of a Conic from an Ellipse	ellipse	7-12
Mathematics Teacher magazine	2004 October	Combinatorial Mathematics: Research into Practice	combinations, discrete math, Piaget, tower problem	7-12
Mathematics Teacher magazine	2004 October	Farey Sums and Understanding Ratios	fractions, farming, chickens, cows	7-12
Mathematics Teacher magazine	2004 October	How Many Votes Are Needed to be Elected President?	presidential election, electoral votes, tables	7-12
Mathematics Teacher magazine	2004 October	A Journey with Circumscribable Quadrilaterals	tangent, quadrilaterals, circumscribable	7-12
Mathematics Teacher magazine	2004 October	New Worlds to Conquer	Mersenne Primes, set cardinality, Fermat primes, perfect numbers	7-12
Mathematics Teacher magazine	2004 December/ January 2005	That Ubiquitous Sum: 1 + 2+ 3+…+ n	gauss, cantor, handshake problem	9-12
Mathematics Teacher magazine	2004 December/ January 2005	Visualizing the Domain And Range of the Composition of Functions	domain, range, composition, functions	9-12
Mathematics Teacher magazine	2005 February	Another Way to Divide a Line Segment into n Equal Parts	Euclid, iterative method, Besteman's construction	7-12
Mathematics Teacher magazine	2005 February	Benjamin Banneker and the Law of Sines	trigonometry, sine, Banneker, slave	7-12
Mathematics Teacher magazine	2005 February	Constructing Cooperative Logic Problems	Get It Together, United We Solve, Group Solutions, puzzles	7-12

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2005 February	Exponential Growth through Pattern Exploration	Sierpinski, triangle, midpoint, iterative process	7-12
Mathematics Teacher magazine	2005 February	Fibonacci Identities, Matrices, and Graphs	Fibonacci, matrices, graphs, determinants	7-12
Mathematics Teacher magazine	2005 February	Promoting Understanding of Linear Equations with the Median-Slope Algorithm	linear regression, tables, lists, slope, graphs, computer program	7-12
Mathematics Teacher magazine	2005 February	Report from the Netherlands: The Dutch Revolution in Secondary School Mathematics	Netherlands, Dutch, Realistic Mathematics Education	7-12
Mathematics Teacher magazine	2005 March	Coloring Formulas for Growing Patterns	patterns, functions	9-12
Mathematics Teacher magazine	2005 March	Finding the Maximal Area of Bounded Polygons in a Circle	area, polygons, circles, vertex	9-12
Mathematics Teacher magazine	2005 March	Fractal Construction and Theory	fractals	9-12
Mathematics Teacher magazine	2005 April	Cribbage: An Excellent Exercise in Combinatorial Thinking	games, combinations	9-12
Mathematics Teacher magazine	2005 April	How Fair Is the Drug Test?	drug tests, random sample, statistics	9-12
Mathematics Teacher magazine	2005 April	Internal Rate of Return	tables, graphs	7-12
Mathematics Teacher magazine	2005 April	The Legacy of Marin Mersenne: The Search for Primal Order and the Mentoring of Young Minds	Mersenne primes, prime numbers, perfect numbers	7-12
Mathematics Teacher magazine	2005 April	Multiplying Everything Using the Difference of Two Squares	difference of 2 squares	9-12
Mathematics Teacher magazine	2005 April	Teaching Probability and Statistics through Game Shows	game shows, probability, statistics	9-12
Mathematics Teacher magazine	2005 May	Averaging Rates: Deciding When to Use the Harmonic or Arithmetic Mean	Harmonic Mean, Arithmetic mean	7-12
Mathematics Teacher magazine	2005 May	Fibonacci and Lucas Numbers	sequences, problem solving	7-12
Mathematics Teacher magazine	2005 May	How the Nations's Largest City is Managing One of its Severest math Teacher Shortages	Math Teacher Shortage	7-12
Mathematics Teacher magazine	2005 May	On Enlarging the Focal Point of a Parabola	conic sections, parabola	7-12
Mathematics Teacher magazine	2005 May	Promoting Problem Solving Across Geometry and Algebra by Using Technology	problem solving	7-12
Mathematics Teacher magazine	2005 August	Biology As a Source for Algebra Equations: Insects	biology, insects, equations	7-12
Mathematics Teacher magazine	2005 August	How Do We Know That's the Minimum	networks, maps, coloring	7-12
Mathematics Teacher magazine	2005 August	Linking Theory and Practice in Teaching Geometry	geometry, Van Hiele levels	7-12
Mathematics Teacher magazine	2005 August	Solving Absolute Value Equations Algebraically and Geometrically	absolute value equations	7-12
Mathematics Teacher magazine	2005 September	The Geometry of Transformations: Teacher and Unit Under Construction	Escher tesselations, patterns, Islamic art, reflections, glide reflections, translations, rotations	
Mathematics Teacher magazine	2005 September	Exploring the Integral of 1/t	graphing calculators, calculus, logarithmic function, exponential function, integration	
Mathematics Teacher magazine	2005 September	Partitioning the Interior of a Circle with Chords	circles, chords, patterns, regions, faces, edges, vertices, Euler's formula, combinations, proof, Pascal's Triangle	
Mathematics Teacher magazine	2005 September	Quilt Blocks: Writing in the Geometry Classroom	writing, literature connection, tesselations, art	
Mathematics Teacher magazine	2005 September	Things Fall Apart: A Recurrence of Tiling	recurrence relationships, proofs, polynomials, substitutions, cuisenaire rods, counting problems, statistical mechanics	
Mathematics Teacher magazine	2005 September	Understanding Functions Without Using the Vertical Line Test	functions, precalculus, vertical line test, tables	
Mathematics Teacher magazine	2005 October	Draw it, Write it, Do it	Geometry, Conics	
Mathematics Teacher magazine	2005 October	Helping Students Connect Functions and Their Representations	Algebra, Functions	
Mathematics Teacher magazine	2005 October	Interactive Geometry in the B. C. (Before Computers) Era	Geometry	

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2005 October	Say What You Mean, Mean What You Say	Geometry, Communication	
Mathematics Teacher magazine	2005 October	Tapping into Trapezoids	Geometry, Trapezoids	
Mathematics Teacher magazine	2005 October	Transformations on Data Sets and Their Effects on Descriptive Statistics	Statistics, Data Analysis	
Mathematics Teacher magazine	2005 November	The Tellem Weavers Meet the Graphing Caculator		
Mathematics Teacher magazine	2005 November	Chines Algebra: Using Historical Propblems to Think About Current Curriculum		
Mathematics Teacher magazine	2005 November	Math through the Mind's Eye		
Mathematics Teacher magazine	2005 November	Making Quilts without Sewing: Investigating Planar Symmetries in Southern Quilts		
Mathematics Teacher magazine	2005 November	Multiple Solutions: More Paths to an End or More Opportunities to Learn Math		
Mathematics Teacher magazine	2005 December / 2006 January	Paper Moon: Simulating a Total solar Eclipse		
Mathematics Teacher magazine	2005 December / 2006 January	Understanding conic Sections Using Alternate Graph Paper		
Mathematics Teacher magazine	2005 December / 2006 January	The Matrix Connections: Fivonacci and Inductive Proof		
Mathematics Teacher magazine	2005 December / 2006 January	Finding Complex Roots: Can You Trust Your Calculator?		
Mathematics Teacher magazine	2005 December / 2006 January	Using the Dynamic Power of Microsoft Excel to Stand on the Shoulders of Giants		
Mathematics Teacher magazine	2006 February	Sound Off!: A Dialogue Between Calculator and Algebra		
Mathematics Teacher magazine	2006 February	Discovring Relationships Involving Baravelle Spirals		
Mathematics Teacher magazine	2006 February	Bugs, Planes, and Ferris Wheels: A Problem-Centered Curriculum		
Mathematics Teacher magazine	2006 February	Three by Three systems; More than Just a Point		
Mathematics Teacher magazine	2006 February	Teaching about Functions through Motin In Real Time		
Mathematics Teacher magazine	2006 February	Your've Heard of Cramer;s Rule, Now Try Comer's: An Alternative Approach to Finding Determinants		
Mathematics Teacher magazine	2006 March	Sound Off!: Trade in Your Pendulum for a Personal Spacecraft		
Mathematics Teacher magazine	2006 March	Approximating Pi with the Golden Ratio		
Mathematics Teacher magazine	2006 March	Proofs That Students Can Do		
Mathematics Teacher magazine	2006 March	Trigonometry Saves Engineer's Time		
Mathematics Teacher magazine	2006 March	Non-Geometry Math and the Geometer's Sketchpad		
Mathematics Teacher magazine	2006 April	An Engaging Puzzle to Explore Algebraic Generalizations		
Mathematics Teacher magazine	2006 April	Advice for Solving Equations		
Mathematics Teacher magazine	2006 April	From Classroom Discussions to Group Discussions		
Mathematics Teacher magazine	2006 April	Hands-on Perspective		
Mathematics Teacher magazine	2006 April	Hands-on Fractals and the Unexpected in Math		
Mathematics Teacher magazine	2006 May	Is Central Park Warming?		
Mathematics Teacher magazine	2006 May	Rotations of the Regular Polyhedra		
Mathematics Teacher magazine	2006 May	The Human Body's Built-In Range Finder: The thumb Method of Indirect Distance Measruement		

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2006 May	Key Ideas and Insights in the Context of three Hgih School Geometry Proofs		
Mathematics Teacher magazine	2006 August	The Surfer Problem: a "Whys" Approach	Geometry (see also Measurement) Reasoning Proof Teaching	
Mathematics Teacher magazine	2006 August	Dandelion Spheres	Analytic Geometry/Trig	
Mathematics Teacher magazine	2006 August	Mathematical Lens	Statistics/Data Analysis	
Mathematics Teacher magazine	2006 August	Assessing Effort: Earning a Salary	Assessment Connections/Applications	
Mathematics Teacher magazine	2006 September	Poles, Parking Lots, and Mount Piton: Classroom Activities that Combine Astronomy, History and Math		
Mathematics Teacher magazine	2006 September	Classroom Voting in Math		
Mathematics Teacher magazine	2006 September	A Deeper Look at Related Rates in Calculus		
Mathematics Teacher magazine	2006 September	Demystifying Systems		
Mathematics Teacher magazine	2006 September	Con-fusing Pairs: An Intriguing Investigation of LCMs		
Mathematics Teacher magazine	2006 September	M&M, Rhinos, Cockroaches, and Cooperative Learning in Math Classrooms		
Mathematics Teacher magazine	2006 October	The Present Year-Long Course in Euclidean Geometry Must Go		
Mathematics Teacher magazine	2006 October	Sound Off: Placement Tests: The Shaky Bridge Connecting School and College Math		
Mathematics Teacher magazine	2006 October	Escape to a New Dimension: A Journey Through Space with a Square, a Cube, and a Tesseract		
Mathematics Teacher magazine	2006 October	Solving Simultaneous Equations: Getting More from Geometry		
Mathematics Teacher magazine	2006 October	Linear and Quadratic Change: A Problem from Japan		
Mathematics Teacher magazine	2006 November	Graphic Methods for Instruction in Data Analysis		
Mathematics Teacher magazine	2006 November	Maximizing the Fit of a box Spring Mattress up a Stairwell		
Mathematics Teacher magazine	2006 November	How Far Up Am I? The Math of Stadium Seating		
Mathematics Teacher magazine	2006 November	Using Simulations in the Math Class		
Mathematics Teacher magazine	2006 November	Country Data Project		
Mathematics Teacher magazine	2006 November	Building a Caree Math File: Challenging Students to Find the Importance of Math in a Variety of Occupations		
Mathematics Teacher magazine	2006 December / 2007 January	Happy Integers		
Mathematics Teacher magazine	2006 December / 2007 January	Better Teaching, Better Math: Are They Enough?		
Mathematics Teacher magazine	2006 December / 2007 January	Intersections of a Circle and a Square: An Investigation		
Mathematics Teacher magazine	2006 December / 2007 January	The Magic of Balanced Groups: Educational Applications of Magic Squares		
Mathematics Teacher magazine	2006 December / 2007 January	Precision: The Neglected Part of the Measurement Standard		
Mathematics Teacher magazine	2006 December / 2007 January	Professional Development for Math Teachedrs: A Team Approach		
Mathematics Teacher magazine	2006 December / 2007 January	Iterated Function Systems in the Classrooms		
Mathematics Teacher magazine	2006 December / 2007 January	Helping Students Make Sense of Math		
Mathematics Teacher magazine	2007 February	Human Interest Put Into Math		
Mathematics Teacher magazine	2007 February	imagein Yourself in This Calculus Classroom		

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2007 February	The Internet: Problem Solving Friend or For?		
Mathematics Teacher magazine	2007 February	Proof for Everyone		
Mathematics Teacher magazine	2007 March	Math Insight: Changin Perspective		
Mathematics Teacher magazine	2007 March	Encouraging Preservice Math Teachers as Mathmatiicians		
Mathematics Teacher magazine	2007 March	What Else Can You Do with an Open Box?		
Mathematics Teacher magazine	2007 March	Shifting from Traditional to Nontraditional Teaching Practices Using Multiple Representations		
Mathematics Teacher magazine	2007 March	Graphing Families of curves Using Transformations of Reference Graphs		
Mathematics Teacher magazine	2007 April	Constructing a Personal Understanding of Math: Making the Pieces Fit		
Mathematics Teacher magazine	2007 April	Stepping Up Your Game		
Mathematics Teacher magazine	2007 April	Statistical Thinking with Trend Charts		
Mathematics Teacher magazine	2007 April	Use of Archimedes' Process for Approximating Circle Area as an Introduction to Limits		
Mathematics Teacher magazine	2007 April	Promoting Inquiry-Based Instruction and Collaboration in a Teacher Preparation Program		
Mathematics Teacher magazine	2007 April	The What, Why, and How of Contextual Teaching in a Math Classroom		
Mathematics Teacher magazine	2007 May	Sound Off! Four Teacher-Friendly Postulates for Thriving in a Sea of Change		
Mathematics Teacher magazine	2007 May	Something for Everyone		
Mathematics Teacher magazine	2007 May	Making the Most of Digital Imagery		
Mathematics Teacher magazine	2007 May	Discovering the Fundamental Theorem of Calculus Using Data Analysis		
Mathematics Teacher magazine	2007 May	Building Personalized Interactive Computer-Based Nonlinear Algebra Tutorials		
Mathematics Teacher magazine	2007 May	Ancient Egyptians and Russian Peasants Foretell the Digital Age		
Mathematics Teacher magazine	2007 August	Explore, Conjecture, Connect, Prove: The Versatility of a Rich Geometry Problem		
Mathematics Teacher magazine	2007 August	Humanizing Calculus		
Mathematics Teacher magazine	2007 August	Promoting Equity in Math: One Teacher's Journey		
Mathematics Teacher magazine	2007 August	Discovering the Magic of Magic Squares		
Mathematics Teacher magazine	2007 August	Sharing Teaching Ideas		
Mathematics Teacher magazine	2007 August	Eliciting Students' Beliefs about Who is Good at Math		
Mathematics Teacher magazine	2007 August	A Model for Constructing Higher Level Classroom Assessments		
Mathematics Teacher magazine	2007 September	Where Have All the Flowers Gone?		
Mathematics Teacher magazine	2007 September	Using Technology to Optimize and Generalize: The Least-Squares Line		
Mathematics Teacher magazine	2007 September	The Inverse Name Game		
Mathematics Teacher magazine	2007 September	Some Intereseting and Thougth-Provoking Geometric Fallacies		
Mathematics Teacher magazine	2007 September	Purchasing a Used Car Using Multiple Criteria Decision Making		
Mathematics Teacher magazine	2007 September	Critical Juncture Ahead! Proceed with Caution to Introduce the Concept fo Function		

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2007 September	Teaching Preservice Secondary Teachers How to Teach Elementary Math Concepts		
Mathematics Teacher magazine	2007 October	Ecosystem simulations and Chaos on the Graphing Calculator		
Mathematics Teacher magazine	2007 October	Who Will Win? Predicting the Presidential Election Using Linear Regression		
Mathematics Teacher magazine	2007 October	Creating and Exploring Simple Models		
Mathematics Teacher magazine	2007 October	Redefining a Model		
Mathematics Teacher magazine	2007 October	Using a Before-During-After (BDA) Model to Plan Effective Secondary Math Lessons		
Mathematics Teacher magazine	2007 November	It's A Home Run! Using Math Discourse to Support the Learning of Statistics		
Mathematics Teacher magazine	2007 November	Making the Most of Math Discussions		
Mathematics Teacher magazine	2007 November	Lessons from Mr. Larson: An Inductive Model of Teaching for Orchestrating Discourse		
Mathematics Teacher magazine	2007 November	A Writing Workshop in Math: Community Practice of Content Discourse		
Mathematics Teacher magazine	2007 November	Let's Talk: Promoting Math Discourse in the Classroom		
Mathematics Teacher magazine	2007 November	Inquiry-Discourse Math Instruction		
Mathematics Teacher magazine	2007 November	Math Discourse: It's Like Hearing a Foreign Language		
Mathematics Teacher magazine	2007 November	Teacher-Orchestrated Classroom Arguments		
Mathematics Teacher magazine	2007 December / 2007 January	Secret Snowflake: Analysis of a Holiday Gift Exchange	Discrete Mathematics Probability Statistics/Data Analysis	
Mathematics Teacher magazine	2007 December / 2007 January	On Blocks, Stairs, and Beyond: Learning about the Significance of Representations		
Mathematics Teacher magazine	2007 December / 2007 January	New Thinking about college Math: Implications for Hgih School Teaching		
Mathematics Teacher magazine	2007 December / 2007 January	The Spirit of Discovery: The Digital Roots of Integers		
Mathematics Teacher magazine	2008 February	Optimization of Cubic Polynomial Functions without Calculus		
Mathematics Teacher magazine	2008 February	Are You Connected? Fostering Exploration with Unexpected Graphs		
Mathematics Teacher magazine	2008 February	Explorations with 142857: Connecting the Elementary with the Advanced		
Mathematics Teacher magazine	2008 February	Analyzing Online Discourse to Assess Students' Thinking		
Mathematics Teacher magazine	2008 February	Connecting Students' Informal Language to More Formal Definitions		
Mathematics Teacher magazine	2008 February	Reading Texts and Writing Problems to Improve Problem Solving		
Mathematics Teacher magazine	2008 February	Poverty: Teaching Math and Social Justice		
Mathematics Teacher magazine	2008 February	Building Intuitive Arguments for the Triangle Congruence Conditions		
Mathematics Teacher magazine	2008 February	Beyond Teachers' Sight Lines: Using Video Modeling to Examine Peer Discourse		
Mathematics Teacher magazine	2008 March	Teaching Algebra dn Geometry Concepts by Modeling Telescope Optics		
Mathematics Teacher magazine	2008 March	Tangent Lines without Calculus		
Mathematics Teacher magazine	2008 March	The Dreaded "Work" Problems Revisited: Connections through Problem Solving from Basic Fractions to Calculus		
Mathematics Teacher magazine	2008 March	Developin gKnowledge of Teaching Math through Cooperative Inquiry		

Topic	Book	Activity	Key Words	Grade
Mathematics Teacher magazine	2008 April	Digitla Images + Intreactive Software = Enjoyable, Real Math Modeling		
Mathematics Teacher magazine	2008 April	Investigating the Math Process with Nonlinear Asymptotes		
Mathematics Teacher magazine	2008 April	Using Technology to Promote Mathematical Discourse Concerning Women in Math		
Mathematics Teaching in the Middle School magazine	1994 September	Moving Forward and Backward with Palindromes	palindromes	5-8
Mathematics Teaching in the Middle School magazine	1994 November/December	Graphing Calculators aren't just for High School Students	graphing caluculators	5-8
Mathematics Teaching in the Middle School magazine	1994 November/December	Introducing Prealgebra Skills in an Egg=citing Way	prealgebra, Easter	5-8
Mathematics Teaching in the Middle School magazine	1994 November/December	The "Mangoes Problem"	fractions	5-8
Mathematics Teaching in the Middle School magazine	1994 November/December	Now & Then Diana Lee, Actuary	actuary	5-8
Mathematics Teaching in the Middle School magazine	1995 January/March	Cartoon Corner	cartoons	5-8
Mathematics Teaching in the Middle School magazine	1995 January/March	Making House Plans	scale models	5-8
Mathematics Teaching in the Middle School magazine	1995 January/March	Now & Then Roger Whitmore, Police Officer	algebra, police officer	5-8
Mathematics Teaching in the Middle School magazine	1995 January/March	The Ratio Table	Ratios	5-8
Mathematics Teaching in the Middle School magazine	1995 January/March	"Real People" A Fifth-Grade Class Investigiates The Lives of Mathematicians	mathematicians	5-8
Mathematics Teaching in the Middle School magazine	1995 April/May	Flower Beds and Landscape Consultants: Making Connections in Middle School Mathematics	area, perimeter, landscaping	5-8
Mathematics Teaching in the Middle School magazine	1995 April/May	Now & Then Ingrid Proctor-Fridia: Quality Assurance Representative	aeronautics, measurement	5-8
Mathematics Teaching in the Middle School magazine	1995 April/May	Our Diets May be Killing Us	nutrition, circle graphs	5-8
Mathematics Teaching in the Middle School magazine	1995 April/May	Playing Green Blobs on a TI-81	graphing calculators	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	1995 April/May	What is the Whole?	fractions	5-8
Mathematics Teaching in the Middle School magazine	1995 September/October	And The Winner Is. . .	patterns	5-8
Mathematics Teaching in the Middle School magazine	1995 September/October	Exploring Mean, Median, and Mode with a Spreadsheet	statistics, spreadsheet	5-8
Mathematics Teaching in the Middle School magazine	1995 September/October	Mathematical Connections: Proportions and Modeling in the Solar System	space, proportions	5-8
Mathematics Teaching in the Middle School magazine	1995 September/October	Now & Then From Konigsberg to Columbus	program analyst, topology, graph theory	5-8
Mathematics Teaching in the Middle School magazine	1996 January/February	Activities from African Calendar and Time Customs	African Mathematics	5-8
Mathematics Teaching in the Middle School magazine	1996 January/February	Covering the Plane with Rep-Tiles	tiling, polygons	5-8
Mathematics Teaching in the Middle School magazine	1996 January/February	Implementing Data Analysis in a Sixth-Grade Classroom	data analysis, statistics	5-8
Mathematics Teaching in the Middle School magazine	1996 January/February	Now & Then Counting on the Air	Disc Jockey, Babylonians, time	5-8
Mathematics Teaching in the Middle School magazine	1996 March/April	The Arcs of Archaeology	archaeology, circumference	5-8
Mathematics Teaching in the Middle School magazine	1996 March/April	The Civil War and the Standards: Some Mathematical Activities	Civil War, measurement, ratio	5-8
Mathematics Teaching in the Middle School magazine	1996 March/April	Data With: Snap, Crackle, and Pop	statistics	5-8
Mathematics Teaching in the Middle School magazine	1996 March/April	How Big was the Roman Empire?	Roman Empire, measurement	5-8
Mathematics Teaching in the Middle School magazine	1996 March/April	Now & Then Livestock Production by the Numbers	livestock, measurement	5-8
Mathematics Teaching in the Middle School magazine	1996 March/April	The Pond: Doing Research Together	pond project, statistics	5-8
Mathematics Teaching in the Middle School magazine	1996 May	Fractions of Ancient Egypt in the Contemporary Classroom	egyptian math, fractions	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	1996 May	Having Fun withBaseball Statistics	baseball , statistics	5-8
Mathematics Teaching in the Middle School magazine	1996 May	Middle-Grades Geometry Acticities	geometry, polygons	5-8
Mathematics Teaching in the Middle School magazine	1996 May	Now & Then The Long Distance Doctor	astronaut	5-8
Mathematics Teaching in the Middle School magazine	1996 September/October	Fraction Flags: Learning from Children to Help Children Learn	fractions	5-8
Mathematics Teaching in the Middle School magazine	1996 September/October	Now & Then Ann Wagner, Mechanical Engineer	engineer, graphing	5-8
Mathematics Teaching in the Middle School magazine	1997 January	Areas and Brownies	cooking, area	5-8
Mathematics Teaching in the Middle School magazine	1997 January	Toys 'R' Math	toys, scale drawings, ratio	5-8
Mathematics Teaching in the Middle School magazine	1997 January	Using a Database for Student Research	technology, children's books	5-8
Mathematics Teaching in the Middle School magazine	1997 March/April	Cartoon Corner	Basketcube	5-8
Mathematics Teaching in the Middle School magazine	1997 March/April	Exploring Middle Graders'Mathematical Thinking Through Journals	writing in math	5-8
Mathematics Teaching in the Middle School magazine	1997 March/April	Graphing in the Information Age: Using Data from the World Wide Web	technology, statistics	5-8
Mathematics Teaching in the Middle School magazine	1997 March/April	Now & Then Measuring Angles in Physical Therapy	Technology, physical therapy, angles	5-8
Mathematics Teaching in the Middle School magazine	1997 March/April	The Missing Link? Writing in Mathematics Class!	writing in math	5-8
Mathematics Teaching in the Middle School magazine	1997 May	Algebra in the Cards?	algebra, patterns, card trick	5-8
Mathematics Teaching in the Middle School magazine	1997 May	Allium to Zircon: Mathematics & Nature	nature, polyhedra, tilings	5-8
Mathematics Teaching in the Middle School magazine	1997 May	Creating A Purchase Order Using SpreadSheets	technology	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	1997 May	Cross-and-Turn Tile Patterns	tilings	5-8
Mathematics Teaching in the Middle School magazine	1997 May	Mathematics as Reasoning--Episodes from Japan	Japan	5-8
Mathematics Teaching in the Middle School magazine	1997 September	Birthdays and the Binary System: A Magical Mixture	binary system	5-8
Mathematics Teaching in the Middle School magazine	1997 September	Using House Plans to Teach Ratio, Proportion, and More!	House Plans, Ratio	5-8
Mathematics Teaching in the Middle School magazine	1997 September	Worthwhile Tasks: Exploring Mathematical Connections Through Geometric Solids	polyhedra, topology, Euler;s Formula, patterns	5-8
Mathematics Teaching in the Middle School magazine	1997 October	A Credit-Union Project	technology	5-8
Mathematics Teaching in the Middle School magazine	1997 October	Racing to Understand Probability	probability	5-8
Mathematics Teaching in the Middle School magazine	1997 October	Stop Using Foul Language in the Mathematics Classroom	vocabulary, fractions	5-8
Mathematics Teaching in the Middle School magazine	1997 October	Strategy Games: Treasures from Ancient Times	quadice, games	5-8
Mathematics Teaching in the Middle School magazine	1997 November/December	A Big Gulp Activity	graduated cylinder, measurement	5-8
Mathematics Teaching in the Middle School magazine	1997 November/December	Developing Conceptual Understanding of Relations and Functions with Attribute Blocks	fuctions, attribute blocks	5-8
Mathematics Teaching in the Middle School magazine	1997 November/December	The Fractions of a Day	fractions, time	5-8
Mathematics Teaching in the Middle School magazine	1997 November/December	Many Faces Have I	polyhedra	5-8
Mathematics Teaching in the Middle School magazine	1997 November/December	Pennies from Heaven-Nickels from Where?	statistics, pennies	5-8
Mathematics Teaching in the Middle School magazine	1998 February	Calculator Poker	games, technology	5-8
Mathematics Teaching in the Middle School magazine	1998 February	Estimate of the Week	food, volume	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	1998 February	Multiplication with Fractions: A Piagetian, Constructivist Approach	fractions	5-8
Mathematics Teaching in the Middle School magazine	1998 February	Push-Penny: What is Your Expected Score?	penny, probability	5-8
Mathematics Teaching in the Middle School magazine	1998 March/April	Card Logic	patterns, games	5-8
Mathematics Teaching in the Middle School magazine	1998 March/April	How Many Blocks?	volume	5-8
Mathematics Teaching in the Middle School magazine	1998 March/April	Now & Them Garden Designer	landscaping, geometry	5-8
Mathematics Teaching in the Middle School magazine	1998 March/April	A Plethora of Polyhedra	pdyhedra, geometry	5-8
Mathematics Teaching in the Middle School magazine	1998 March/April	Scoring Activities for Polygons	polygons	5-8
Mathematics Teaching in the Middle School magazine	1998 March/April	Truss(t)ing Triangles	triangles, geometry, structures	5-8
Mathematics Teaching in the Middle School magazine	1998 May	Marcy's Dot Pattern	sequences, dot patterns	5-8
Mathematics Teaching in the Middle School magazine	1998 May	Mathematics Fitness	fitness, measurement, graphing	5-8
Mathematics Teaching in the Middle School magazine	1998 May	Pythagorean Triples Revisited	pythagorean, triples	5-8
Mathematics Teaching in the Middle School magazine	1998 May	Tangrams and Area	area, tangrams	5-8
Mathematics Teaching in the Middle School magazine	1998 May	You Are Cleared to Land	aeronautics, angles, geometry	5-8
Mathematics Teaching in the Middle School magazine	1998 September	Building A Teenage Dance Club	scale models, measurement	5-8
Mathematics Teaching in the Middle School magazine	1998 September	State-ing the Facts: Exploring the United States	geography	5-8
Mathematics Teaching in the Middle School magazine	1998 September	Wheel of Fortune for the Mathematics Classroom	probability, circle graph	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	1998 October	Polygon Capture: A Geometry Game	polygons	5-8
Mathematics Teaching in the Middle School magazine	1998 October	Roll- an introduction to probability	probability	5-8
Mathematics Teaching in the Middle School magazine	1999 January	Developing Geometric Thinking through Activities That Begin With Play	geometry, piaget, Van Hiele	5-8
Mathematics Teaching in the Middle School magazine	1999 January	Now & Then Fiber Meets Fibonacci	Fibonacci	5-8
Mathematics Teaching in the Middle School magazine	1999 January	Readers Write	Divisisbility rules	5-8
Mathematics Teaching in the Middle School magazine	1999 February	Educating Hannah: It's a What?	spatial sense	5-8
Mathematics Teaching in the Middle School magazine	1999 February	Solving Geometric Problems by Using Unit Blocks	spatial sense, blocks	5-8
Mathematics Teaching in the Middle School magazine	1999 March	Capture and Recapture Your Students' Intrest in Statistics	statistics, food	5-8
Mathematics Teaching in the Middle School magazine	1999 March	Exploring Probability	probability	5-8
Mathematics Teaching in the Middle School magazine	1999 March	Now & Then Displaying Data is As Easy As Pie!	statistics, nursing	5-8
Mathematics Teaching in the Middle School magazine	1999 March	Putting Math in Motion with Calculator-Based Labs	technology	5-8
Mathematics Teaching in the Middle School magazine	1999 April	Cat and Mouse	games	5-8
Mathematics Teaching in the Middle School magazine	1999 April	Mathematics Detective Mode Code	cryptology	5-8
Mathematics Teaching in the Middle School magazine	1999 April	The Time-Line Project	mathematicians	5-8
Mathematics Teaching in the Middle School magazine	1999 May	From The Giver to The Twenty-One Balloons: Explorations with Probability	probability, children's literature	5-8
Mathematics Teaching in the Middle School magazine	1999 May	Assessing Open Ended Problems	problem solving, assessment,	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	1999 May	Multiple Strategies = Multiple Challenges	problem solving, assessment, reflection	5-8
Mathematics Teaching in the Middle School magazine	1999 September	Counting Grass	grass, measurement	5-8
Mathematics Teaching in the Middle School magazine	1999 September	Mathematics Detective Mcguire, Sosa and the Home-Run Champions	baseball, statistics	5-8
Mathematics Teaching in the Middle School magazine	1999 October	Card Logic	patterns, recursive strategy, exchange strategy, working-backward strategy	5-8
Mathematics Teaching in the Middle School magazine	2000 October	Cartoon Corner	cartoons	5-8
Mathematics Teaching in the Middle School magazine	1999 October	Exploring Factor Sets with a Graphing Calculator	technology, factors	5-8
Mathematics Teaching in the Middle School magazine	1999 October	Graphics in Real Time	technology, graphs	5-8
Mathematics Teaching in the Middle School magazine	1999 October	Posing Problems: Two Classroom Examples	Taiwan	5-8
Mathematics Teaching in the Middle School magazine	1999 December	Genetics as a context for the Study of Probability	genetics, probability,	5-8
Mathematics Teaching in the Middle School magazine	1999 December	Reinventing Scrabble with Middle School Students	games	5-8
Mathematics Teaching in the Middle School magazine	1999 December	Using Dragon Curves to Learn About Length and Area	area, length	5-8
Mathematics Teaching in the Middle School magazine	2000 February	From Tessellations to Polyhedra: Big Polyhedra	tesselations, polyhedra	5-8
Mathematics Teaching in the Middle School magazine	2000 February	Should the United States Emulate Sinapore's Education System to Achieve Singapore's Success in the TIMSS?	Singapore	5-8
Mathematics Teaching in the Middle School magazine	2000 February	Travel the World-an Addition Game	games, geography, place value	5-8
Mathematics Teaching in the Middle School magazine	2000 February	Why Is the Year 2000 a Leap Year?	leap year	5-8
Mathematics Teaching in the Middle School magazine	2000 March	Cartoon Corner	cartoons	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2000 March	Now & Then Community Planning through Data Analysis	stasticis	5-8
Mathematics Teaching in the Middle School magazine	2000 March	Pythagorean Triples Served for Dessert	technology, Pythagorean Theorem	5-8
Mathematics Teaching in the Middle School magazine	2000 May	Menu of Problems	toothpicks	5-8
Mathematics Teaching in the Middle School magazine	2000 September	Some "Big Ideas" of Algebra in the Middle Grades	algebra	5-8
Mathematics Teaching in the Middle School magazine	2000 September	2 is Not the Same as 2.0	numerical algebra, applied mathematics, range of numbers	5-8
Mathematics Teaching in the Middle School magazine	2000 September	Choosing Problems with Entry Points for all Students	worthwhile tasks, probem solving	5-8
Mathematics Teaching in the Middle School magazine	2000 May	Teaching Algebra in the Middle Grades Using Mathmagic	algebra	5-8
Mathematics Teaching in the Middle School magazine	2000 October	Basing a Career on Base Two	binary system	5-8
Mathematics Teaching in the Middle School magazine	2000 October	Deciding When to Use Calculators	technology	5-8
Mathematics Teaching in the Middle School magazine	2000 October	Mission Possible! Can You Walk Your Talk?	technology	5-8
Mathematics Teaching in the Middle School magazine	2000 November	The Inka Quipn; Positional Notatation on a Knotted Cord	knots, Inka mathe,	5-8
Mathematics Teaching in the Middle School magazine	2000 November	Now & Then From Shadows to Surveying	mathematicians, surveying, similarity	5-8
Mathematics Teaching in the Middle School magazine	2000 December	Enriching Students' Mathematical Intuitions with Probability Games and Tree Diagrams	probability	5-8
Mathematics Teaching in the Middle School magazine	2000 December	Sumgo Here and Sumgo There	games	5-8
Mathematics Teaching in the Middle School magazine	2001 January	Using Models to build an understanding of Functions	functions	5-8
Mathematics Teaching in the Middle School magazine	2001 January	Zero: A Special Case	number systems	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2001 February	Algebraic Thinking through Origami	origami	5-8
Mathematics Teaching in the Middle School magazine	2001 February	Revisiting a Difference of Squares	algebra	5-8
Mathematics Teaching in the Middle School magazine	2001 March	New Approaches to Algebra: Have We Missed the Point?	algebra	5-8
Mathematics Teaching in the Middle School magazine	2001 March	The Tangram Counundrum	tangrams	5-8
Mathematics Teaching in the Middle School magazine	2001 April	Circles and the Number Pi	pi	5-8
Mathematics Teaching in the Middle School magazine	2001 April	Magice Squares: Discovering Their History and Their Magic	magic squares	5-8
Mathematics Teaching in the Middle School magazine	2001 May	The Possibility of Perfection	baseball, statistics	5-8
Mathematics Teaching in the Middle School magazine	2001 May	Standards-Based Teaching: Alive and Well in Portugal	Portugal	5-8
Mathematics Teaching in the Middle School magazine	2001 September	Creating Connections: Promoting Algebraic Thinking with Concrete Models	algebra	5-8
Mathematics Teaching in the Middle School magazine	2001 October	Burgers, Graphs, and Combinations	food, combinations	5-8
Mathematics Teaching in the Middle School magazine	2001 October	Determining Probability by examining underlying structure	probability	5-8
Mathematics Teaching in the Middle School magazine	2001 October	Making Connections with Prime Numbers	prime numbers	5-8
Mathematics Teaching in the Middle School magazine	2001 November	By the Unit or Square Unit?	perimeter, area	5-8
Mathematics Teaching in the Middle School magazine	2001 December	Multiplication from Lilavati to the Summa	India	5-8
Mathematics Teaching in the Middle School magazine	2002 January	Fibonacci: Beautiful Patterns, Beautiful Mathematics	Fibonacci	5-8
Mathematics Teaching in the Middle School magazine	2002 February	Mathematics In The South Korean Flage	symmetry, South Korea	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2002 February	The Other Life of Florence Nightingale	nursing	5-8
Mathematics Teaching in the Middle School magazine	2002 March	Hockey Stats: Data Collection on Ice	statistics, hockey	5-8
Mathematics Teaching in the Middle School magazine	2002 March	Let's Take Another Look at Pi Day	pi	5-8
Mathematics Teaching in the Middle School magazine	2002 March	A Rhythmic Approach to Geometry	geometry, technology	5-8
Mathematics Teaching in the Middle School magazine	2002 March	Rice + Technology = an Exponential Experience!	technology	5-8
Mathematics Teaching in the Middle School magazine	2002 April	Building Explicit and Recursive Forms of Patterns with the Function Game	functions	5-8
Mathematics Teaching in the Middle School magazine	2002 April	Divisibility Tests: So Right for Discoveries	divisibility rules	5-8
Mathematics Teaching in the Middle School magazine	2002 April	Numbers in the Garden and Geometry in the Jungle	fibonacci	5-8
Mathematics Teaching in the Middle School magazine	2002 April	"X"-tending the Fibonacci Sequence	fibonacci	5-8
Mathematics Teaching in the Middle School magazine	2002 May	Building Mathematically Powerful Students through Connections	geometry	5-8
Mathematics Teaching in the Middle School magazine	2002 September	Blueprint for Writing in Middle School Mathematics	writing	5-8
Mathematics Teaching in the Middle School magazine	2002 September	Diet, Ratios, Proportions: A Healthy Mix	rations, food	5-8
Mathematics Teaching in the Middle School magazine	2002 October	Investigating Prime Numbers and the Great Internet Mersenne Prime Search	prime numbers	5-8
Mathematics Teaching in the Middle School magazine	2002 October	Middle-Level Students Learn Mathematics Using the U.S. Map	maps, ration, U.S.	5-8
Mathematics Teaching in the Middle School magazine	2002 November	Do You See What I See?	patterns, graphing, calculators, geometry	5-8
Mathematics Teaching in the Middle School magazine	2002 November	Reasoning About Linear Equations	linear equations	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2002 November	Strategies For Helping Students Who Have Learning Disabilities in Mathematics	Learining Disabilities	5-8
Mathematics Teaching in the Middle School magazine	2002 December	Three-Dimensional Geometry and Crystallography	crystals, views, spatial sense	5-8
Mathematics Teaching in the Middle School magazine	2002 December	What Happens to Geometry on a Sphere?	complex analysis, sphenical geometry	5-8
Mathematics Teaching in the Middle School magazine	2003 January	Ratios of Linear, Area, and Volume Measures in Similar Solids	measurement, area, volume, solids oigami, cubes, linear	5-8
Mathematics Teaching in the Middle School magazine	2003 January	The Versatile Magic Square	Magic Squares	5-8
Mathematics Teaching in the Middle School magazine	2003 February	Explorations with a Functioning Flex-O-Gram	flex-a-gram, geometry	5-8
Mathematics Teaching in the Middle School magazine	2003 March	Developing Algebraic Reasoning Through Generalization	cubes, functions	5-8
Mathematics Teaching in the Middle School magazine	2003 March	How Many Times Does a Radius Square Fit into the Circle?	geometry, area, ratio	5-8
Mathematics Teaching in the Middle School magazine	2003 May	A Modeling Approach for Enhancing Problem Solving in the Middle Grades	problem solving, Singapore	5-8
Mathematics Teaching in the Middle School magazine	2003 May	Eureka! Or Don't Throw out the Crown with the Bathwater	archimedes, Pi	5-8
Mathematics Teaching in the Middle School magazine	2003 May	Sweet-Tooth Geometry	candy, prison, surface area, pyramid	5-8
Mathematics Teaching in the Middle School magazine	2003 May	Using Literature to Teach Factorials	factorials	5-8
Mathematics Teaching in the Middle School magazine	2003 September	Developing a Meaningful Understanding of the Mean	average, mean	5-8
Mathematics Teaching in the Middle School magazine	2003 September	Revisiting the Sum of Odd Natural Numbers	sums, Gauss, Odd numbers,	5-8
Mathematics Teaching in the Middle School magazine	2003 September	Using School Lunches to Study Proportion	Yogi Berra, fractions	5-8
Mathematics Teaching in the Middle School magazine	2003 October	Intersecting and Perpendicular Lines: Activities to Prevent Misconceptions	toothpicks, straws, perpendicular	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2003 October	The Chinese Abacus: A Window Into Standards-Based Pedagogy	Abacus	5-8
Mathematics Teaching in the Middle School magazine	2003 November	Assessing Proportional Thinking	proportional, reasoning	5-8
Mathematics Teaching in the Middle School magazine	2003 November	The Influence of Ancient Egypt on Greek and Other Numeration Systems	Egyptian numeral system	5-8
Mathematics Teaching in the Middle School magazine	2003 November	Turning Traditonal Textbook Problems into Open-Ended Problems	constructed response	5-8
Mathematics Teaching in the Middle School magazine	2003 November	Using Friday Puzzlers to Discover Arithmetic Sequences	Gauss, sums, arithmetic sequences	5-8
Mathematics Teaching in the Middle School magazine	2003 November	Using Literature to Engage Students In Proportional Reasoning	ratio	5-8
Mathematics Teaching in the Middle School magazine	2003 December	Surprise! Turn Routine Problems into Worthwhile Tasks	worthwhile tasks, problem solving, spinner, ratio	5-8
Mathematics Teaching in the Middle School magazine	2003 December	Improper Applications of Proportional Reasoning	proportional reasoning, Belgium	5-8
Mathematics Teaching in the Middle School magazine	2003 December	Geometric Conjectures: The Importance of Counterexamples	proof	5-8
Mathematics Teaching in the Middle School magazine	2003 December	The Mathematics of Native American Star Quilts	quilts, symmetry, tesselation	5-8
Mathematics Teaching in the Middle School magazine	2003 December	Using Origami to Promote Geometric Communication	origami, vocabulary	5-8
Mathematics Teaching in the Middle School magazine	2004 January	The Chess and Mathematics Connection: More Than Just a Game	chess, game, logic, strategy	5-8
Mathematics Teaching in the Middle School magazine	2004 January	Coordinate Plane Set Detective	graphing, algebra, ordered pairs	5-8
Mathematics Teaching in the Middle School magazine	2004 January	Exploring Proportional Reasoning Through Movies and Literature	Harry Potter, proportional reasoning	5-8
Mathematics Teaching in the Middle School magazine	2004 January	Limited English-Proficient Students Mathematical Understanding	LEP, ELL	5-8
Mathematics Teaching in the Middle School magazine	2004 January	Circles of Humanity	circles, compass	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2004 February	Inverting a Triangular Array: Involving Students in Mathematical Inquiry	games, pennies	5-8
Mathematics Teaching in the Middle School magazine	2004 February	Manipulatives in the Middle School	manipulatives, blocks	5-8
Mathematics Teaching in the Middle School magazine	2004 March	The Beauty of Geometry	stained glass window, geometry	5-8
Mathematics Teaching in the Middle School magazine	2004 March	Developing Ratio Concepts: An Asian Perspective	ratio	5-8
Mathematics Teaching in the Middle School magazine	2004 March	Benjamin Banneker and the Method of Single Position	Banneker, black American	5-8
Mathematics Teaching in the Middle School magazine	2004 March	Mathematical Modeling: Convoying Merchant Ships	Wold War I, World War II, ships, Britain	5-8
Mathematics Teaching in the Middle School magazine	2004 April	Learning About Area by Working with Building Plans	area	5-8
Mathematics Teaching in the Middle School magazine	2004 April	A Path to Discovery	turn angle, turtle, polygons	5-8
Mathematics Teaching in the Middle School magazine	2004 May	The Arithmetick of Lewis and Clark and the Corps of Discovery	Lewis & Clark	5-8
Mathematics Teaching in the Middle School magazine	2004 May	TI-73 Calculator Activities	graphing calculator	5-8
Mathematics Teaching in the Middle School magazine	2004 May	How Can a Box Help My Students with Multiplying Polynomials?	multiplying polynomials	5-8
Mathematics Teaching in the Middle School magazine	2004 August	Cracking the Code	Cryptography	5-8
Mathematics Teaching in the Middle School magazine	2004 August	Turning Origami Into The Language of Mathematics	origami	5-8
Mathematics Teaching in the Middle School magazine	2004 August	"You Are Cleared to Land"	aeronautics	5-8
Mathematics Teaching in the Middle School magazine	2004 September	Building Percent Dolls: Connecting Linear Measurement to Learning Ratio and Proportion	linear measurement, rational numbers, proportion, percent, body parts	5-8
Mathematics Teaching in the Middle School magazine	2004 September	Moving Forward and Backward with Palindromes	palindromes, number theory, algebra	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2004 September	The Equity Principle Through the Voices of African American Males	black Americans	5-8
Mathematics Teaching in the Middle School magazine	2004 September	Proportional Reasoning: Lessons from research in Data and Chance	probability, data, chance, statistics	5-8
Mathematics Teaching in the Middle School magazine	2004 October	A "Chilling" Project Integrating Integrating Mathematics, Science, and Technology	ice, cool, technology	5-8
Mathematics Teaching in the Middle School magazine	2004 October	Two Students' Constructed Strategies to Divide Fractions	division, algorithms, fractions	5-8
Mathematics Teaching in the Middle School magazine	2004 October	Midas Touch	gold, worthwhile tasks	5-8
Mathematics Teaching in the Middle School magazine	2004 October	Adding a la Gauss	Gauss, magic squares, arithmetic sequences	5-8
Mathematics Teaching in the Middle School magazine	2004 November	How Much Water Is in the Skating Rink?	volume, formula, measurement	5-8
Mathematics Teaching in the Middle School magazine	2004 November	Changing Views: Fearless Families Conquering Technology Together	technology, calculators	5-8
Mathematics Teaching in the Middle School magazine	2004 November	The Value of Multiple Solutions	problem solving, methods	5-8
Mathematics Teaching in the Middle School magazine	2004 November	Comparing Kisses	candy, probability,data, chance, statistics, bar graph, box and whisker plot	5-8
Mathematics Teaching in the Middle School magazine	2004 December/ January 2005	Celebrating 100 Years of Flight: Testing Wing Designs in Aircraft	airplanes	5-8
Mathematics Teaching in the Middle School magazine	2004 December/ January 2005	Collaborating to Introduce Algebra	graphing	5-8
Mathematics Teaching in the Middle School magazine	2004 December /January 2005	Exploring Measurement Concepts through Literature: Natural Links across Disciplines	measurement	5-8
Mathematics Teaching in the Middle School magazine	2004 December/ January 2005	Using Ancient egyptian Fractions to Review Fraction Concepts	fractions, Egypt	5-8
Mathematics Teaching in the Middle School magazine	2005 February	Cartoon Corner	cartoons	5-8
Mathematics Teaching in the Middle School magazine	2005 February	Computer-Generated Fractal Art	fractals, snow flakes, geometry	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2005 March	Geometric Probability and the Areas of Leaves	area, leaf, plants	5-8
Mathematics Teaching in the Middle School magazine	2005 March	Why Not Just Tell Students How to Solve the Problem?	problem solving	5-8
Mathematics Teaching in the Middle School magazine	2005 April	Every Story Tells a Picture	graphing	5-8
Mathematics Teaching in the Middle School magazine	2005 April	John Henry-The Steel Driving Man	literature, box and whisker plots	5-8
Mathematics Teaching in the Middle School magazine	2005 April	Poetry in Motion	Shel Silverstein, poetry, literature	5-8
Mathematics Teaching in the Middle School magazine	2005 April	The Power of Two: Linking Mathematics and Literature	literature	5-8
Mathematics Teaching in the Middle School magazine	2005 April	Harry Potter and the Magic of Mathematics	Harry Potter, literature, graphing calculators	5-8
Mathematics Teaching in the Middle School magazine	2005 August	Seven Things I Learned About Teaching (and Assessing) Mathematics From my Sensei (Karate Instructor)	assessment	5-8
Mathematics Teaching in the Middle School magazine	2005 August	Walking Through Space: A New Approach for Teaching Functions	functions	5-8
Mathematics Teaching in the Middle School magazine	2005 August	Have You Lost Your Marbles? Three Creative Problem-solving Approaches	problem solving	5-8
Mathematics Teaching in the Middle School magazine	2005 August	Incorporating Spatial Ability Instruction in Teacher Preparation	Geometry instruction	5-8
Mathematics Teaching in the Middle School magazine	2005 September	Addressing Diversity in the Mathematics Classroom with Cultural Artifacts	culture, abacus, China, SCAMP Project, equity, diversity, origami	5-8
Mathematics Teaching in the Middle School magazine	2005 September	Using Student Work to Develop Teachers' Knowledge of Algebra	worthwhile tasks, algebra, research, student work	5-8
Mathematics Teaching in the Middle School magazine	2005 September	You Made It Through the Test; What About the Aftermath?	assessment	5-8
Mathematics Teaching in the Middle School magazine	2005 September	The Case of the Culinary Counting Clues and Conditions	clues, food, counting, Fibonacci, plate, waiter	5-8
Mathematics Teaching in the Middle School magazine	2005 September	Embedding Algebraic Thinking Throughout the Mathematics Curriculum	algebra, number sense, data analysis, geometry, representations, integration, volume	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School magazine	2005 September	Developing Students' Understandings of Variable	algebra, variable, mice, percents, student work	5-8
Mathematics Teaching in the Middle School magazine	2005 September	Indian Lightning Multiplication	algorithm, multiplication, indians, factoring, trinomials, binomials, diagram, base ten blocks	5-8
Mathematics Teaching in the Middle School magazine	2005 September	Using Clock Arithmetic to Teach Algebra Concepts	arithmetic, algebra, clock, modular arithmetic, finite systems	5-8
Mathematics Teaching in the Middle School magazine	2005 September	Spatial Abilities in the Middle Grades	call for manuscripts	5-8
Mathematics Teaching in the Middle School	2005 October	Giving Exponential Functions a Fair Shake	M&Ms, exponential functions, graphs, technology, tables, dice	5-8
Mathematics Teaching in the Middle School	2005 October	Monkey Paws, English Pounds, and Leagues: Using Literature in the Middle School	literature, walking rates, measurement conversions, proportional reasoning, "The Monkey's Paw," "Memory Boy"	5-8
Mathematics Teaching in the Middle School	2005 October	Investigating Students Thinking about Nets	nets, surface area	5-8
Mathematics Teaching in the Middle School	2005 October	Using Tiered Lessons in Mathematics	differentiated instruction, classroom management,assessment	5-8
Mathematics Teaching in the Middle School	2005 October	What is the Name of this Game?	games, digits, tic-tac-toe	5-8
Mathematics Teaching in the Middle School	2005 November	Aiming for Understanding: Lessons Learned about Writing in Math		5-8
Mathematics Teaching in the Middle School	2005 November	Are They Wrong? Or Did They Just Answer a Different Question?		5-8
Mathematics Teaching in the Middle School	2005 December	How Does Your Doughnut Measue Up?		5-8
Mathematics Teaching in the Middle School	2005 December	An Arithmetic Thinker Tackles Algebra		5-8
Mathematics Teaching in the Middle School	2005 December	Using Creative Writing and Literature in Math Classes		5-8
Mathematics Teaching in the Middle School	2005 December	Keepint It Real: The Rationale for Using Manipulatives in the Middle Grades		5-8
Mathematics Teaching in the Middle School	2006 February	Creating Multiple Representations in Algebra: All Chocolate, No Change		5-8
Mathematics Teaching in the Middle School	2006 February	What Do We Know About Eighth Grade Achievement?		5-8
Mathematics Teaching in the Middle School	2006 March	Discovering Euler circuits and Paths through a Culturally Relevant Lesson		5-8
Mathematics Teaching in the Middle School	2006 March	Developing Algebraic Thinking: An Academy Model for Professional Development		5-8
Mathematics Teaching in the Middle School	2006 March	One, Some, or None: Finding Beauty in Ambiguity		5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School	2006 March	March Math Madness: The Math of the NCAA Backetball Tournament		5-8
Mathematics Teaching in the Middle School	2006 March	Algebraic Thinking and Geometry		5-8
Mathematics Teaching in the Middle School	2006 April	A Science Application of Area and Ratio Concepts		5-8
Mathematics Teaching in the Middle School	2006 April	"Lettuce " Learn Math: Teaching Math with Seeds and Centimeters		5-8
Mathematics Teaching in the Middle School	2006 April	Body Data		5-8
Mathematics Teaching in the Middle School	2006 April	Using Engineering to Understand Reciprocal Functions		5-8
Mathematics Teaching in the Middle School	2006 April	Modeling the Seafloor		5-8
Mathematics Teaching in the Middle School	2006 April	Integrating Curricula: the SC Studies Model		5-8
Mathematics Teaching in the Middle School	2006 May	The A-Maizing Corn Lab: A Geneticist's Biography Leads a Math Exploration	Connections, Applications, Science, Data	5-8
Mathematics Teaching in the Middle School	2006 May	Developing Algebraic thinking through Pattern Exploration		5-8
Mathematics Teaching in the Middle School	2006 May	Why, Why Should I Justify?		5-8
Mathematics Teaching in the Middle School	2006 May	Science and Math in Balance	Connections, Applications, Science	5-8
Mathematics Teaching in the Middle School	2006 May	Implementing Reform Practices in a Middle School Classroom		5-8
Mathematics Teaching in the Middle School	2006 May	Where Is the Moon Tonight?	Connections, Applications, Science	5-8
Mathematics Teaching in the Middle School	2006 August	What's on Your Radar Screen? Distance-Rate-Time Problems from NASA	Algebra, Connections	5-8
Mathematics Teaching in the Middle School	2006 August	Using Thought Bubble Picture to Assess students' Feeling about Math	Assessment, Attitudes	5-8
Mathematics Teaching in the Middle School	2006 August	Understanding the Properties of Arithmetic: A Prerequisite for Success in Algebra	Number. Computation, Arithmetic	5-8
Mathematics Teaching in the Middle School	2006 August	Data Analysis and Statistics in the Middle School	data analysis, statistics, stem and leaf, outliers	5-8
Mathematics Teaching in the Middle School	2006 August	The Revolution in Arithmetic		5-8
Mathematics Teaching in the Middle School	2006 August	Do You Understand Your Algorithms?	computations, arithmetic, multiplication, arrays, foil, polynomials, area, division	5-8
Mathematics Teaching in the Middle School	2006 August	Selecting Hig-Quality Math Textbooks		5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School	2006 September	Fantasy Football and Math Score Touchdowns with Students		5-8
Mathematics Teaching in the Middle School	2006 September	A Worthwhile Math Task for Students and Their Teachers		5-8
Mathematics Teaching in the Middle School	2006 September	Geometry: More Than Just Shapes	Geometry, shapes, triangles, squares, rectangles, deductive reasoning	5-8
Mathematics Teaching in the Middle School	2006 September	Relational Understanding and Instrumental Understanding		5-8
Mathematics Teaching in the Middle School	2006 September	How Come? What If? So What? Reading in the Math Classroom		5-8
Mathematics Teaching in the Middle School	2006 September	Hitting the Bull's Eye: A Dart Game Simulation Using Graphing Calculator Technology		5-8
Mathematics Teaching in the Middle School	2006 September	Using Engaging Contexts to Introduce Concepts		5-8
Mathematics Teaching in the Middle School	2006 October	Measuring Tremendous Trees: Discovery In Action		5-8
Mathematics Teaching in the Middle School	2006 October	Math in the History of Civilization		5-8
Mathematics Teaching in the Middle School	2006 October	Learning from Voices in Classrooms		5-8
Mathematics Teaching in the Middle School	2006 October	How to Buy a Car 101		5-8
Mathematics Teaching in the Middle School	2006 November	Locusts for Lunch: Math, Science and Literature	Connections/Applications, Measurement/Conversions, Problem Solving/Proportions	5-8
Mathematics Teaching in the Middle School	2006 November	A Model for Understanding Unstanding in Math	Understanding, pedagogy, assessment	5-8
Mathematics Teaching in the Middle School	2006 November	If I Only Had One Question: Partner Quizzes in Middle School Math	Assessment	5-8
Mathematics Teaching in the Middle School	2006 November	Solve It! The Two-Digit Game	Problem solving, Probability	5-8
Mathematics Teaching in the Middle School	2006 November	Take Time for Action: Similar Shapes and Ratios	Geometry/Measurement, Patterns, Reasoning, Proof	5-8
Mathematics Teaching in the Middle School	2006 November	Counting Dots and Measuring Area: Rich Problems From Japan	Algebra, Algebraic Thinking, Connections, Applications, Geometry, Measurement, Problem Solving, Representation	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Math Roots		5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Mathematics Detective: Talk Isn't Cheap	Problem solving, Data collection,	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	The Thinking of Students: Elizabeth's Long Walk	Problem solving	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	It's the Thought That Counts: Reflecting on Problem Solving	problem solving	5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School	2006 December / 2007 January	Using Error Analysis to Teach Equation Solving	Algebra/Algebraic Thinking Assessment	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Using Alice in Wonderland to Teach Multiplication of Fractions	Multiplication, fractions, literature, proportion, similar rectangles	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Engaging Contexts for the Game of Nim	Working backward, solving equations, function machine, problem solving	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Not Just for Computation: Basic Calculators Can Advance the Process Standards	Calculators, computation, percent, technology, keystrokes	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Finding Areas on Dot Paper	Area, dot paper, triangle, rectangle, parallelogram, trapezoid, polygon, hexagon	5-8
Mathematics Teaching in the Middle School	2006 December / 2007 January	Psychology of Learning in the Junior High School		5-8
Mathematics Teaching in the Middle School	2007 February	Using Prediction to Promote Math Reasoning		5-8
Mathematics Teaching in the Middle School	2007 February	Cell Phone Coverage Area: Helping Students Achieve in Math		5-8
Mathematics Teaching in the Middle School	2007 February	Using sorting Networks for Skill Building and Reasoning		5-8
Mathematics Teaching in the Middle School	2007 February	Insturctional Games with Calculators		5-8
Mathematics Teaching in the Middle School	2007 February	Alternative Uses for Junk Mail: How Environmental Pring Supports Mathematical Literacy		5-8
Mathematics Teaching in the Middle School	2007 February	Magic with Mayan Math		5-8
Mathematics Teaching in the Middle School	2007 March	The Algebra of the Arches		5-8
Mathematics Teaching in the Middle School	2007 March	The Future of Fractions		5-8
Mathematics Teaching in the Middle School	2007 March	Some Thoughts about Fractions		5-8
Mathematics Teaching in the Middle School	2007 March	Integer Target: Using a Game to Medel Integer Addition and Subtraction		5-8
Mathematics Teaching in the Middle School	2007 March	Probability Games from Diverse Cultures		5-8
Mathematics Teaching in the Middle School	2007 March	A Mathematical Private Eye		5-8
Mathematics Teaching in the Middle School	2007 April	By Way of Introduction: Math and the Arts		5-8
Mathematics Teaching in the Middle School	2007 April	Teaching Math through the Art of Kolam		5-8
Mathematics Teaching in the Middle School	2007 April	Weaving Plaids Based on (a+ or -b)2		5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School	2007 April	Just Five Does It: Using Five Numbers to Make Pattrned Squares		5-8
Mathematics Teaching in the Middle School	2007 April	Irrational Numbers Can "In-Spiral" You		5-8
Mathematics Teaching in the Middle School	2007 April	Connecting the Mobiles of Alexander Calder to Linear Equations		5-8
Mathematics Teaching in the Middle School	2007 April	Guitars, Violins, and Geometric Sequences		5-8
Mathematics Teaching in the Middle School	2007 April	Master of Tessellations: M.C. Escher, 1898-1972		5-8
Mathematics Teaching in the Middle School	2007 April	Escher in the Classroom		5-8
Mathematics Teaching in the Middle School	2007 May	Measurement and Fair-Sharing Models for Dividing Fractions		5-8
Mathematics Teaching in the Middle School	2007 May	Math, Art, Research, Collaboration, and Storytelling: The High MARCS Project		5-8
Mathematics Teaching in the Middle School	2007 May	Anticipating Student Responses to Improve Problem Solving		5-8
Mathematics Teaching in the Middle School	2007 May	Be Resolute about Absolute Value		5-8
Mathematics Teaching in the Middle School	2007 May	Emotion and Thought		5-8
Mathematics Teaching in the Middle School	2007 May	building an Online Discussion Group for Teachers		5-8
Mathematics Teaching in the Middle School	2007 August	Focal Points - What's Next for You?		5-8
Mathematics Teaching in the Middle School	2007 August	It's All in the Cards: Adding and Subtracting Integers		5-8
Mathematics Teaching in the Middle School	2007 August	Issues of Language: Teacher Insights from Math Lessons in Chinese		5-8
Mathematics Teaching in the Middle School	2007 August	Masterpieces to Math: Using Art to Teach Fraction, Decimal, and Tercent Equivalents		5-8
Mathematics Teaching in the Middle School	2007 August	Using Pattrn Tasks to Develop Math Understandings and Set Classroom Norms		5-8
Mathematics Teaching in the Middle School	2007 August	A Context for Integer Computation		5-8
Mathematics Teaching in the Middle School	2007 September	How Does Your Math Garden Grow?		5-8
Mathematics Teaching in the Middle School	2007 September	C2 = Creative Coordinates		5-8
Mathematics Teaching in the Middle School	2007 September	Understanding Students' Problem-Solving Knowledge through Their Writing		5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School	2007 September	Lattice Multiplication in a Preservice Classroom		5-8
Mathematics Teaching in the Middle School	2007 October	Integrating Literature and Math: A Mysterious Connection		5-8
Mathematics Teaching in the Middle School	2007 October	Connecting Measurement and Architecture: Building an Inflatable		5-8
Mathematics Teaching in the Middle School	2007 October	Are We Golden? Investigations with the Golden Ratio		5-8
Mathematics Teaching in the Middle School	2007 October	Fermi Questions		5-8
Mathematics Teaching in the Middle School	2007 October	Metric Madness		5-8
Mathematics Teaching in the Middle School	2007 October	The Coat Check Problem: A S(t)imulating lesson		5-8
Mathematics Teaching in the Middle School	2007 November	Focused Strategies for Middle Grades Math Vocabulary Development		5-8
Mathematics Teaching in the Middle School	2007 November	See a Different Math		5-8
Mathematics Teaching in the Middle School	2007 November	Reflections on a Research-Inspired Lesson about the Fairness of Dice		5-8
Mathematics Teaching in the Middle School	2007 November	Dynamic Concrete Instruction in an Inclusive Classroom		5-8
Mathematics Teaching in the Middle School	2007 December	How Fast Do Trees Grow? Using Tables and Graphs to Explore Slope		5-8
Mathematics Teaching in the Middle School	2007 December	Integrating Math and Scoial Issues		5-8
Mathematics Teaching in the Middle School	2007 December	"I Can't Write All the Way to 100": Recognizing Students' Emerging Algebraic Strategies		5-8
Mathematics Teaching in the Middle School	2007 December	Teaching Multiplication Algorithms form Other Cultures		5-8
Mathematics Teaching in the Middle School	2007 December	Is Silence Golden? What Silent Participants Might Be Learning in Discourse-Rich Classrooms		5-8
Mathematics Teaching in the Middle School	2008 February	Division by a Fraction: Assessing Understanding through Problem Writing		5-8
Mathematics Teaching in the Middle School	2008 February	Teaching Algebra without Algebra		5-8
Mathematics Teaching in the Middle School	2008 February	Integrating Content to Create Problem-Solving Opportunities		5-8
Mathematics Teaching in the Middle School	2008 February	Using Quilt Blocks to Construct Understanding		5-8
Mathematics Teaching in the Middle School	2008 March	Ten Practical Tips for Making Fractions Come Alive and Make Sense		5-8

Topic	Book	Activity	Key Words	Grade
Mathematics Teaching in the Middle School	2008 March	Building for the Future: The Math of Architecture and Design		5-8
Mathematics Teaching in the Middle School	2008 March	Card Sorts, State Tests, and Meaningful Math		5-8
Mathematics Teaching in the Middle School	2008 March	An Experiment in Using Portfolios in the Middle School Classroom		5-8
Mathematics Teaching in the Middle School	2008 March	Inproving the Planning and Teaching of Math by Reflecting on Research		5-8
Mathematics Teaching in the Middle School	2008 March	Percents Can Make Sense		5-8
Mathematics Teaching in the Middle School	2008 April	By Way of Introduction: Developing Math Understanding through Representations		5-8
Mathematics Teaching in the Middle School	2008 April	Developing Math Understanding through Muliple Representations		5-8
Mathematics Teaching in the Middle School	2008 April	Promoting Math Accessibility through Multiple Representations Jugsaws		5-8
Mathematics Teaching in the Middle School	2008 April	Oranges, Posters, Ribbons, and Lemonade: Concrete Computational Strategies for Dividing Fractions		5-8
Mathematics Teaching in the Middle School	2008 April	Student Representations at the Center: Promoting Classroom Equity		5-8
Mathematics Teaching in the Middle School	2008 April	Analyzing Students' Use of Graphic Representations: Determingin Misconceptions and Error Patterns for Instruction		5-8
Mathematics Teaching in the Middle School	2008 April	Developing Meaning for Algebraix Symbols: Possibilities and Pitfalls		5-8
Mathematics Teaching in the Middle School	2008 April	Sense-able Comginatorics: Students' Use of Personal Representations		5-8
Mathematics Teaching in the Middle School	2008 April	The Role of Representations in Fraction Addition and Subtraction		5-8
NASA	Aeronautics	Right Flight	glider, x-glider, aeronautics, spacecraft, airplanes, design, problem solving, prototypes, engineering	
NASA	Aeronautics	Rotor Motor	glider, aeronautics, spacecraft, problem solving, measurement, graphing, engineering	
NASA	Aeronautics	Tools of the Trade	glider, x-glider, aeronautics, spacecraft, airplanes, design, problem solving, prototypes, engineering	
NASA	All Aboard For Space	Aircraft Matching	patterns, classification	K-1
NASA	All Aboard For Space	Blast Off Sequence	sequencing, logic, problem solving, rocket, launch	K-1
NASA	All Aboard For Space	Parachutes	parachutes, shapes, problem solving	K-2
NASA	All Aboard For Space	Plane Maze	airplanes, maze, spatial awareness	K-1
NASA	All Aboard For Space	Rocket Size Order	rockets, ordering, sequencing, problem solving	K-1
NASA	All Aboard For Space	Space Item Count	sequencing, logic, problem solving, rocket, launch, airplanes	K-1
NASA	All Aboard For Space	Space Shuttle Model	space shuttle, design, Styrofoam	K-1
NASA	All Aboard For Space	Word Families	Word forming, shuttle, math combinations, spacecraft	K-2
NASA	All Aboard For Space	World Puzzle	geography, world, puzzle	pk-1
NASA	Connect 2004-2005	Good Stress: Building Better Muscles and Bones		

Topic	Book	Activity	Key Words	Grade
NASA	Connect 2004-2005	Rocket to The Stars		
NASA	Connect 2004-2005	Ancient Observatories: Timeless Knowledge		
NASA	Connect 2004-2005	Hidden Treasures: Landscape Archeology		
NASA	Connect 2003-2004	Virtual Earth		
NASA	Connect 2003-2004	Better Health from Space to Earth		
NASA	Connect 2003-2004	PSA, The Astronaut's Helper		
NASA	Connect 2003-2004	The Venus Transit		
NASA	Connect 2003-2004	The "A" Train Express		
NASA	Connect 2002-2003	The Centennial of Flight Special Edition: Problem Solving: The “Wright” Math		
NASA	Connect 2002-2003	Measurement, Ratios, and Graphing: Who Added the “Micro” to Gravity?		
NASA	Connect 2002-2003	Special Edition: World Space Congress 2002: The New Face of Space		
NASA	Connect 2002-2003	Data Analysis and Measurement: Dancing in the Night Sky		
NASA	Connect 2002-2003	Festival of Flight Special: Opening Space for Next Generation Explorers		
NASA	Connect 2001-2002	Measurement, Ratios, and Graphing: Safety First	airplanes, aviation safety, design, measurement, ratios, graphing, problem solving, technology	6-8
NASA	Connect 2001-2002	Geometry and Algebra: The Future Flight Equation	airplanes, aviation safety, design, measurement, geometry, algebra, problem solving, technology	6-8
NASA	Connect 2001-2002	Data Analysis and Measurement: Having a Solar Blast	solar storms, prediction, weather, Sun-Earth connection, data analysis, measurement, technology	6-8
NASA	Connect 2001-2002	Functions and Statistics: Dressed for Space	spacesuit, technology, functions, statistics, ISS, International Space Station,	6-8
NASA	Connect 2000-2001	Measurement, Ratios, and Graphing: 3, 2, 1 . . . Crash!	airplanes ,aviation safety, design, measurement, ratios, graphing, problem solving, technology	6-8
NASA	Connect 2000-2001	Geometry and Algebra: Glow With the Flow	airplanes, aviation safety, design, measurement, geometry, algebra, scale models, technology, wind tunnel, air flow, problem solving	6-8
NASA	Connect 2000-2001	Pattern, Functions, and Algebra: Wired for Space	spacecraft, orbit, patterns, functions, algebra, technology	6-8
NASA	Connect 2000-2001	Data Analysis and Measurement: Ahead, Above the Clouds	weather, data analysis, measurement, technology	6-8
NASA	Connect 2000-2001	Functions and Statistics: International Space Station: Up to Us	ground research, space research, ISS, functions, statistics, technology, space exploration, International Space Station	6-8
NASA	Connect 1999-2000	The Measurement of All Things: Tools of the Aeronautics Trade		
NASA	Connect 1999-2000	The Measurement of All Things: Atmospheric Detectives		
NASA	Connect 1999-2000	Geometry of Exploration: Water Below the Surface of Mars		
NASA	Connect 1999-2000	Geometry of Exploration: Eyes Over Mars		
NASA	Connect 1999-2000	Proportionality: The X-Plane Generation		
NASA	Connect 1999-2000	Proportionality: Modeling the Future		
NASA	Connect 1999-2000	Algebra: Mirror, Mirror on the Universe		
NASA	Connect 1998-1999	Plane Weather		
NASA	Connect 1998-1999	Shapes of Flight		
NASA	Connect 1998-1999	Wherever You Go, There You Are		
NASA	Connect 1998-1999	Recipe for the Future		
NASA	Connect 1998-1999	Quieting the Skies		
NASA	Exploring Earth From Space		shuttle photography, remote sensing	4-12
NASA	Optics	#01: Reflection of Light With a Plane Mirror - Trace a Star	reflection, mirror, plane mirror, star, light, measurement, electromagnetic spectrum	K-8
NASA	Optics	#02: Reflection of light with 2 plane mirrors	reflection, mirror, plane mirror, angles, light, measurement, electromagnetic spectrum	K-8

Topic	Book	Activity	Key Words	Grade
NASA	Optics	#07: Exploring Diffraction With A Spectroscope	light, diffraction, spectroscope,measurement, electromagnetic spectrum, prisms	K-8
NASA	Optics	#10: Light and Color - Color Spinners	measurement, electromagnetic spectrum, light, color, spinners	K-8
NASA	Optics	#11: Light and Color - Filters	light, color, filters, measurement, electromagnetic spectrum	K-8
NASA	Optics	#12: Light and Color - Hidden Messages	light, color, filters, measurement, electromagnetic spectrum, problem solving	K-8
NASA	Optics	#13: Simple Magnifiers	magnifier, measurement, problem solving	K-8
NASA	Rockets	3-2-1 Pop	rockets, launch, alka-seltzer, solid fuel, liquid fuel, Newton's Laws	K-12
NASA	Rockets	Paper Straw Rocket wings	rockets, space exploration	
NASA	Rockets	Teacher Guide	rocket engines, launch vehicle, observing, building models, collecting data	k-12
NASA	Space Food and Nutrition	Activity 2: Food Selection	astronauts, space, space exploration, ISS, space food; humans in space	K-8
NASA	Space Food and Nutrition	Activity 3: Planning and Serving Food	astronauts, space, space exploration, ISS, space food; humans in space	K-8
NASA	Space Food and Nutrition	Activity 4: Classifying Space Food	astronauts, space, space exploration, ISS, space food; humans in space, classification	K-8
NASA	Space Food and Nutrition	Activity 5: Ripening of Fruits and Vegetables	astronauts, space, space exploration, ISS, space food; humans in space, fruit, vegetables	K-8
NASA	Space Food and Nutrition	Activity 6: Mold Growth	astronauts, space, space exploration, ISS, space food; humans in space, mold	K-8
NASA	Space Food and Nutrition	Activity 7: How Much Is Waste?	astronauts, space, space exploration, ISS, space food; humans in space, waste	K-8
NASA	Space Food and Nutrition	Activity 8: Dehydrating Food For Spaceflight	astronauts, space, space exploration, ISS, space food; humans in space, dehydrate, rehydrate	K-8
NASA	Space Food and Nutrition	Activity1: Food Preparation For Space	astronauts, space, space exploration, ISS, space food; humans in space	K-8
NASA	Suited For Spacewalking	Potato Astronaut	space exploration, meteorites, impact, crater, kinetic energy, mass, velocity, potato	
NASA		Our Solar System	planets, quiz, lithographs	
Physical Science	Density	Floating Density Spheres Set	density, floatation	4-8+
Physical Science		Build A Bridge	bridge, design, challenge, tension, weight	
Physical Science		Sink or Swim: The Cartesian Diver	cartesian diver, sink, float, water pressure, buoyancy	4-10
Physical Science: Chemistry	SMART Science	Ph Cat	p;H, bases, acids	
Physical Science: Chemistry	Zero to Einstein in 60	Starch Balls	mixtures, oobleck	3-8
Physical Science: Chemistry		Make Your Own Polymers	chemistry, polymers, oobleck, GOOP, Silly Putty, recipe, Borax	
Physical Science: Density	Floating Density Spheres Set		density, floatation, volume, measurement, fluids	4-10
Physical Science: Light and Energy	Challenger	UV Detectives		
Physical Science: Light and Energy	Challenger Center	How Do Light Filters Help Space Scientists	Astronomy, emission nebula, color sheet, light, stars, energy	
Physical Science: Light and Energy	Challenger Center	The Quest in the Question	mission, space shuttle, astronaut, analyze light, filter	
Physical Science: Light and Energy	NASA	Spin A Spectra of Mysteries and Riddles	light, spectra, observation, group	9-12
Physical Science: Light and Energy	NSTA: Magic and Mystery of Light	Electromagnetic Spectrum	light, prism, color, rainbow, art, songs, headband, infrared, x-ray, gamma rays, spectroscope, diffraction grating, slinky, heat, thermometer	K-3
Physical Science: Light and Energy	Soaring Through the Universe	Sunlight and Science	light, color, rainbows,	K-3
Physical Science: Light and Energy	STARDate	Shadow Play	shadows, observation, sun, light	

Topic	Book	Activity	Key Words	Grade
Physical Science: Light and Energy	Window On the Universe	Detecting UV Light	ultraviolet, light, sun, UV rays, observation, data collection	
Physical Science: Light and Energy		Advanced Experiments with Diffraction Gratings	diffraction grating, resolving power, grating constant, Fraunhofer absorption spectrum	
Physical Science: Light and Energy		Infrared	light, spectra, infrared	4-12
Physical Science: Light and Energy		Mixing Colors	colors, pigments, light, spectrum, white light, observation	K-3
Physical Science: Light and Energy		Mystery Spectra	light, spectra	4-12
SEPUP	Bacteria Study Kit		bacteria, data collection, infusions, gram stain, cell, methylene blue, gram positive, gram negative	4-10
SEPUP	Biology and Chemistry of Soil		soil, CEC, rock, pH, topsoil, soil characterization, soil color, soil texture, soil particles, root, bacteria, microorganisms,	4-10
SEPUP	Differentiation of Cells Kit		seedling plants, cells, differentiation, germinate, grass, mitosis, root, meristem cells, root cap, data collection, observation	
SEPUP	Fruitvale: The Groundwater	parts per million	ppm, water pollution, contamination, decimals, percents, ration, measurement, observation, data collection	4-10
SEPUP	Investigating Human Heredity		genetics, genotype, pedigree, human body, dominant, recessive, heredity, phenotype, gene, trait,	4-9
SEPUP	Investigating Mirrors	#1 - Using A Mirror	mirrors, spatial awareness, angles, measurement	4-9
SEPUP	Investigating Mirrors	#2 - Images In a Mirror	mirrors, spatial awareness, angles, measurement, reflection	4-9
SEPUP	Investigating Mirrors	#3 - Many Images	mirrors, spatial awareness, angles, measurement	4-9
SEPUP	Investigating Mirrors	#4 - Properties of Mirrors	mirrors, spatial awareness, angles, measurement	4-9
SEPUP	Investigating Mirrors	#5 - Reflection	mirrors, spatial awareness, angles, measurement	3-9
SEPUP	Investigating Polyhedral Shapes		geometric shapes,	4-10
SEPUP	Measuring Experiment Kit	Various Exercises	measurement, angles, solar system, optical illusions, astrolab, radius, diameter, Earth/Sun connection, graphing, circumference	4-10
SEPUP	Molecular Model of DNA and It's Replication		DNA, double helix, James Watson, Francis Crick, replication, data collection, observation	4-10
SEPUP	Natural Selection		evolution, Kettlewell study, moths, data collection, coloration, generations, dominant, survival of the fitess	4-10
SEPUP	Nitrate in Fresh Water Test Kit		plant nutrients, nitrate, fresh water, data collections, drinking water,	4-10
SEPUP	Ob-Scertainer kit		observation, data collection, black boxes, scientific method, Dalton model, Rutherford's, Bohr's model	4-10
SEPUP	Osmosis and Diffusion Kit		osmosis, diffusion, plant cells, protoplasm, animal cells, membrane,	4-10
SEPUP	Phosphate in Fresh Water Kit		phosphates, inorganic phosphorus, water, pollution, data collection, algal blooms, fertilizers, decomposition	4-10
SEPUP	Plant Cell Study Kit		plants, cell, monocot, stem cross sections, dicot, observations, vascular bundles, woody dicots, data collection, fibrovascular bundles, bundle sheath,	4-10
SEPUP	Pollutant Effects of Phosphates and Nitrates Kit		nitrates, phosphates, data collection, pollutants, sewage, treatment plants, runoff, laundry detergents, algal blooms	4-10
SEPUP	Random Chance Probability Kit		random chance, probability, data collection, observation	4-10
SEPUP	Scientific Method and Problem Solving Kit		scientific method, problem solving, chemplate, unknowns, Brom thymol blue, observations	4-10

Topic	Book	Activity	Key Words	Grade
SEPUP	SEPUP Sampler		ppm, recycling, polymers, chlorine, penny factory, liquids, copper chloride, aluminum, dilution, toxic solutions,	4-10
SEPUP	Soil Organisms Study		soil, micro-organisms, bacteria, fungi, protozoa, nematodes, mites, earthworms, insects, data collection	K-12
Science & Children	1998 March	Problem Solver: Contaminated Water	groundwater, pollution, soil, contaminants	
Science & Children	1998 March	Writing a Letter to a Scientist		
Science & Children	1998 March	Integrated Instruction: A Trio of Strategies	literature-based, therem-based, project-based	
Science & Children	1998 March	Outstanding Science Trade Books for Children for 1998		
Science & Children	1998 March	Libros de ciencias en Espanol		
Science & Children	1998 March	River Run Through It: Discovering the Interior Columbia River Basin	Columbia River Basin, aquatic ecosystems, restoration, fish, watersheds, habitat	
Science & Children	1998 March	And You Were There	space, Endeavor, sapce mission,	
Science & Children	1998 November/ December	Problem Solver: Energy Conversion	wind energy, water energy, electrical energy, turbine	
Science & Children	1998 November/ December	Lessons from a "Living Fossil"	horseshoe crab,	
Science & Children	1998 November/ December	Teaching Animal Classification with Beanie Babies	vertebrates, mammals, fish, amphibians, reptiles, birds	
Science & Children	1998 November/ December	A Moving Science Lesson	simple machine, volcano, dance, kinesthetics	
Science & Children	1998 November/ December	Storytelling and Astronomy	constructivism, literacy, Goodnight Moon,	
Science & Children	1998 November/ December	Soft Space Models	Lunar Prospector, spacecraft, marshmallows, design, solar panels, moon	
Science & Children	1998 November/ December	Take Off with Scientific Methodology	airplanes, aerodynamics, flight, lift, drag, thrust, gravity, data collection	
Science & Children	1998 November/ December	Teach Me Some Science: An Elementary/Middle School Partnership	worm, magnet	
Science & Children	1999 January	Problem Solver: Making Solar Cookers	solar energy, heat	
Science & Children	1999 January	Primary Paleontologists	fossils, dinosaur, topo map, excavation	
Science & Children	1999 January	Web of Life Connections	birds, insects, food web, food chain, life cycle	
Science & Children	1999 January	Exploring Experimental Design	hands-on, graphing, data collection	
Science & Children	1999 January	Science and Technology: A Great Combination	presentations, Internet, inquiry	
Science & Children	1999 January	Weather Detectives: Searching for Cool Clues	temperature, transpiration, light energy, sun,	
Science & Children	1999 January	Thought for Food	health, nutrition, food, taste, vegetable	
Science & Children	1999 February	Problem Solver: Heat Conduction	metal, heat	
Science & Children	1999 February	A Fishy Adventure	water, pollution, habitat, filtration, multiple intelligence, verbal, music, logical, visual kinesthetic, naturalis, intrapersonal, interpersonal,	
Science & Children	1999 February	Looking Out for Latex	allergy, classroom management	
Science & Children	1999 February	Shining Light on Photosynthesis	plant growth, photosynthesis, plant,	
Science & Children	1999 February	Find Out Why	hurrican, ocean, ferrofluid, poetry	
Science & Children	1999 February	Pressure, Pressure Everywhere	rap, hands-on, air pressure,	
Science & Children	1999 February	Science is About Not Knowing, but Trying to Find Out		
Science & Children	1999 March	Problem Solver: Making Holes in 2 L Bottles		
Science & Children	1999 March	Outstanding Science Trade Books for Children for 1999		
Science & Children	1999 March	Libros de Ciencias en Espanol		
Science & Children	1999 March	Meeting State Standards Through Integration	Puzzlement Board, Think station	

Topic	Book	Activity	Key Words	Grade
Science & Children	1999 March	The Colorado Plateau: High, Wide, and Windswept	ecology, diversity, geology, Arizona, New Mexico, Colorado, Utah, plateau, riparian, desert	
Science & Children	1999 March	Off the Beaten Path	camping	
Science & Children	1999 March	Global Warming: It's Not Cool	electroboard, multisensory,	
Science & Children	1999 September	Problem Solver: More Static Activities	statuc ekectricity	
Science & Children	1999 September	Ecosystem Explorations	ecosystem, ecology, terrarium	
Science & Children	1999 September	Sizing Up Science Competitions		
Science & Children	1999 September	Electrifying Encounters		
Science & Children	1999 September	The Sky's the Limit	observation, moon, sun	
Science & Children	1999 September	Developing Inquiring Minds	chromatography, leaf, inquiry	
Science & Children	1999 September	Assessing Students' Ideas About Animals	data collection, analysis, animal, organisms, classification,	
Science & Children	1999 September	Preservice Teachers' Views of Scientists		
Science & Children	1999 October	Problem Solver: A Few Sound Ideas	sound	
Science & Children	1999 October	The Nature of Haiku	observation, writing,	
Science & Children	1999 October	Girls Only, Please	after school, club,	
Science & Children	1999 October	Activity Selection: It's More Than the Fun Factor		
Science & Children	1999 October	Science Object Boxes	birds, adaptations, vocabulary, scale, models,	
Science & Children	1999 October	Playful Activities for Young Crhildren	float and sink, spinner, bottle organ, assessment	
Science & Children	1999 November/December	Problem Solver: Teaching Tropisms	plant, hydrotropism, chemotropism, phototropism, thigmotropism, geotropism	
Science & Children	1999 November/December	Library of Conservation	literature, language arts, conservation, endangered animals	
Science & Children	1999 November/December	Teaching with Dewey on My Shoulder	interaction, continuity, mentor,	
Science & Children	1999 November/December	A Workshop Approach	magnets, problem solving	
Science & Children	1999 November/December	http://World Wide Weather	GLOBE, collecting data, observation,	
Science & Children	1999 November/December	Studying Our Skin	nerves, skin, human body, exploration, observation,	
Science & Children	1999 November/December	Day of Science	balloon, cloud-making, hands-on	
Science & Children	2000 January	Problem Solver: Convention Connections	convection, currents	
Science & Children	2000 January	Sowing the Seeds of the Standards	seeds, flower	
Science & Children	2000 January	Analyzing the Standards		
Science & Children	2000 January	The Crosswicks Creek Caper	geology, rocks, soil, investigation, inquiry	
Science & Children	2000 January	Readhing the Standards		
Science & Children	2000 January	GIS: A New Way to See	mapping, GIS, data, weeds, firefighting	
Science & Children	2000 January	Testing the Waters		
Science & Children	2000 January	What's It Like Where You Live?	field work, data analysis, virtual field trip	
Science & Children	2000 January	Designing Assessments with the Standards		
Science & Children	2000 February	Problem Solver: Demonstrating the Water Cycle		
Science & Children	2000 February	Outdoor Classroom Adventures		
Science & Children	2000 February	What's the Buzz	bees, behavior, simulation, honey, hive	
Science & Children	2000 February	Photographing Wildlife		
Science & Children	2000 February	Find Out Why	model, slide, friction, slope	
Science & Children	2000 February	Blow-by-Blow Inquiry	motion, force, inquiry, lungs, measurement	
Science & Children	2000 February	Standards Direct Preservice Teacher Portfolios		
Science & Children	2000 March	Problem Solver: Current Relative Positions of the Planets	bulletin board, planets	

Topic	Book	Activity	Key Words	Grade
Science & Children	2000 March	Outstanding Science Trade Books for Children for 2000		
Science & Children	2000 March	Libros de Ciencias en Espanol		
Science & Children	2000 March	Poetry and the Environment	poet, environment, focus, perspectives, Earth Dance	
Science & Children	2000 March	Natural Cycles: Coming Full Circle	cycles, day, nightk, life cycles, rock cycle, Native Americans, birth and death, amphibian, seasonal, butterfly, metamorphosis, water cycle, bird, seed	
Science & Children	2000 March	Rocks as Windows into the Past	rocks, geollgy, weathering, crystals	
Science & Children	2000 March	Water: A Sticky Subject?	water, adhesion, cohesion, properties	
Science & Children	2000 March	Space Day 2000	living and working,	
Science & Children	2000 May	Problem Solver: Classroom Chromotography		
Science & Children	2000 May	Crash into Meteorite Learning	meteorite, asteroid, impact crater, measurement	
Science & Children	2000 May	Electronic Leaf Project	classification, technology, botany, leaf, observation, collections	
Science & Children	2000 May	MultiMedia Rocks	rocks, minerals, hyperstudio,	
Science & Children	2000 May	Digging Science	fossil, pit, geologic time,	
Science & Children	2000 May	Green Mansions: the Evergreen Forests of the Pacific Northwest	Pacific Northwest, temperate, forests, ecosystem, wood, volcanoes, sediment, buffer zone, plants	
Science & Children	2000 May	Puppets and Prose	animal, puppet, literature	
Science & Children	2000 May	Reaching the Reluctant Science Teacher	nature of science, hands-on, misconception	
Science & Children	2000 September	Problem Solver: Water Defies Gravity	surface tension, prediction	
Science & Children	2000 September	The Value of Teahers Doing Classroom Research		
Science & Children	2000 September	Rev Up Your Veggies	models, carsmotion, design, nutrition	
Science & Children	2000 September	Investigation Insects!	stimuli, reaction, animal behavior	
Science & Children	2000 September	Diving into a Schoolwide Science Theme	art, music, oceans	
Science & Children	2000 September	Teaching for Understanding	producer, consumer, pre-assessment, plants	
Science & Children	2000 September	Students' Ideas About Animals: Results from a National Study	animals, data collection	
Science & Children	2000 September	Our Star, the Sun	sun, shadow, earth motion, solar cooking, sundial	
Science & Children	2000 September	Using Effective Demonstrations for Motication	demonstration,	
Science & Children	2000 October	Problem Solver: Making and Using a Barometer	weather, weather instruments, barometer	
Science & Children	2000 October	Science Fairs for All	scientific method, data collection	
Science & Children	2000 October	Say "Yes" to Metric Measure	metrics,	
Science & Children	2000 October	Beyond Paper and Pencil Assessments	rubric, performance-based	
Science & Children	2000 October	Recycling into Art	loom, science, art,	
Science & Children	2000 October	More Space Shuttle Experiments Take Flight	seeds, NASA, shuttle, design,	
Science & Children	2000 November/December	Problem Solver: Egg in a Bottle	air pressure, egg, demonstration	
Science & Children	2000 November/December	The Sun Tower	compass rose, motion, sun,	
Science & Children	2000 November/December	Box Up Your Habitat	habitat, environmnet, US geography, envirobox	
Science & Children	2000 November/December	Second Grade Soil Scientists	soil, seeds, roots, ,germination	
Science & Children	2000 November/December	Analyzing Children's Science Journals		
Science & Children	2000 November/December	Nature Transects	habitat, transect, data collection, graphs,	
Science & Children	2000 November/December	Teaching Science to English-as-Second Language Learners	ESL, assessment	
Science & Children	2001 February	Problem Solver: Fishing for Seeds	seeds, fishing, dispersal	
Science & Children	2001 February	The Ants Have It	insects,	

Topic	Book	Activity	Key Words	Grade
Science & Children	2001 February	The Bird		
Science & Children	2001 February	The Learning-Style Teaching Model		
Science & Children	2001 February	A Place in the Sun	desert, ecosystem, Mojave Desert, mountains, ared, aerial, tortoise, utility corridor	
Science & Children	2001 February	Animals in Disguise	adaptation, camouflage, survival, pattern, insects	
Science & Children	2001 February	Standardizing the Language of Inquiry	predictions, inference	
Science & Children	2001 March	Problem Solver: Making a Wind Vane	weather, wind vane	
Science & Children	2001 March	How DO You Choose Science Trade Books?		
Science & Children	2001 March	Libros de Ciencias en Espanol		
Science & Children	2001 March	Outstanding Science Trade Books for Children - 2001		
Science & Children	2001 March	C is for Change		
Science & Children	2001 March	An Authentic Science Conference	ocean, field trip, lab,	
Science & Children	2001 March	See Jane Swing From a Swing	pendulums, jungle, drama	
Science & Children	2001 April	Problem Solver: Fun with Noisy Cups	vibration, amplifier	
Science & Children	2001 April	When a Hypothesis is NOT an Educated Guess	hypothesis, prediction, theory,	
Science & Children	2001 April	The Acadian Dikes	technology, Aboiteau, dike,	
Science & Children	2001 April	Examining Language to Capture Scientific Understandings	inquiry	
Science & Children	2001 April	Project Reptile!	lizard, project	
Science & Children	2001 April	A Key to Science Learning	writing, communication, solid, volume, matter,	
Science & Children	2001 April	Teaching Science When Your Principal Say "Teach Language Arts"	interdisciplinary	
Science & Children	2001 May	Scientist - Geeks & Nerds?	scientist, stereotypes, perceptions	
Science & Children	2001 May	Convection Connections	air, water, currents, sky, learning cycle, wind, waves	
Science & Children	2001 May	Our Growing Planet	population, resources, carrying capacity, hunger	
Science & Children	2001 May	The Wild Bunch	desert, horse,	
Science & Children	2001 May	Inquiry Made Easy	inquiry, inquiry wheel, chromatography,	
Science & Children	2001 September	Rice is Rice, Right?	rice, inquiry	
Science & Children	2001 September	Leaders, Readers, and Science	survival, ice, leadership, literature, inquiry	
Science & Children	2001 September	The Traveling Scientist	flower, dissection, bubbles, raisin, buoyancy,	
Science & Children	2001 September	The Building Blocks of Geology	cereals, blocks, minerals, rocks, crystals	
Science & Children	2001 September	Teaming Up with Scientists		
Science & Children	2001 October	Outside Learning; It's Elementary	enviornment, schoolyard, habitat	
Science & Children	2001 October	Someone's in the Kitchen with Science	food, art, food pyramid, fruit, vegetable, berries	
Science & Children	2001 October	How Do Children Know What They Know?		
Science & Children	2001 October	Those Amazing Inventions!		
Science & Children	2001 October	What a Relief	topography, map, island, model	
Science & Children	2001 October	Centimeters, Millimeters, and Monsters	fashion show, metric, measurement, scale, monster	
Science & Children	2001 November/December	Miniature Sleds, Go, Go, Go!	force, motion, engineering, party, winter	
Science & Children	2001 November/December	A Garden Story	urban, garden, butterfly, flowers	
Science & Children	2001 November/December	A Bat Is Like a ….	bat, adaptations, analog	
Science & Children	2001 November/December	Action Research Brings Results		
Science & Children	2001 November/December	Parent Outreach Success		
Science & Children	2002 April	Picture This!	photography, after school science, science club	K-12

Topic	Book	Activity	Key Words	Grade
Science & Children	2002 April	Origami Help Scientists?	origami, art, engineering	K-12
Science & Children	2002 April	Making Creamy Ice Cream: More Than Just Cranking	ice cream, bubbles, freezing	K-12
Science & Children	2002 October	Real World Robotics	Legos, robotics	4-6
Science & Children	2002 October	Start Young	preschool, learning centers	pK-1
Science & Children	2002 November/December	Electric Connections	electricity, circuit	K-6
Science & Children	2002 November/December	Simply Butterflies	butterfly, life cycle	K-6
Science & Children	2002 November/December	Welcome to the Underground	caves, cavern, bats	K-6
Science & Children	2003 January	A Science Night of Fun	family science	K-6
Science & Children	2003 January	Snowflake Science	snowflake, snow, literature	K-6
Science & Children	2003 January	Super Science Saturday	family science	K-6
Science & Children	2003 February	Flying Together & Build a Better Airplane	flight, paper airplane, forces	K-9
Science & Children	2003 February	Journey into the Five Senses	5 senses, sight, see, taste, touch, hear, listen, smell	
Science & Children	2003 February	Rock Solid	rocks, minerals, literacy	K-8
Science & Children	2003 March	Water for Life & A Water Cycle Terrarium	terrarium, water cycle	K-7
Science & Children	2003 September	Students' Ideas about Plants	plants, seeds	K-6
Science & Children	2003 September	Real Earthquakes, Real Learning	earthquake, plate tectonics, using technology	4-8
Science & Children	2003 September	Dealing with Data	data collection, graphing	K-6
Science & Children	2003 October	Comparing Crystals	crystals	4-6
Science & Children	2003 October	Demystifying Mixtures & Tell Tale Colors	mixtures, chromatography	K-6
Science & Children	2003 October	Harry Potter and the Dichotomous Key	classification, Harry Potter	3-8
Science & Children	2003 October	It's Pumpkin Time!	pumpkin, observation	K-6
Science & Children	2003 November/December	Science in Any Language	literacy, ESL	5-8
Science & Children	2003 November/December	Sticking Together, Bulging Water & Soap and Surface Tension	cohesion, surface tension, water	K-8
Science & Children	2004 January	Be a Food Scientist	food science, nutrition	4-7
Science & Children	2004 January	Discovering Flowers in a New Light	flower, proscope, microscope	K-7
Science & Children	2004 January	Rock Wonderings	rocks, literature	K-6
Science & Children	2004 January	Welcome to Rock Day	rocks, fossils	K-8
Science & Children	2004 February	Circus Light	light	4-6
Science & Children	2004 February	Water Wherever	snow, water cycle, literature	K-6
Science & Children	2004 April	Exploring Ecosystems	ecosystem, desert, food	K-6
Science & Children	2004 April	Ladybugs Across the Curriculum	ladybugs, insect	K-4
Science & Children	2004 Summer	Meet the Decomposers	decomposition, compost, slug, snail	pK-6
Science & Children	2004 October	Digging the Past	geology, geologic time, fossils	K-6
Science & Children	2004 October	Going Through Changes	erosion, deposition, weathering	4-8
Science & Children	2004 October	The Strongest Mountain	erosion, mountain	4-8
Science & Children	2004 November/December	A Season to Inquire	trees, seasons, literature	K-6
Science & Children	2004 November/December	The Shrinking Statue	acid rain, chemical weathering	K-8
Science & Children	2005 January	Antartic Adaptations	penguins, antartica, adaptation	K-6
Science & Children	2005 January	Ice Versus Rock	icicles, stalacite	3-6
Science & Children	2005 January	Project Produce	food, produce, grocery	5-8
Science & Children	2005 January	Small Things Draw Big Interest	microscope, soils, matter	K-4
Science & Children	2005 January	Snow Bank Detectives	rock layers, geology	K-4
Science & Children	2005 February	Friction Lesson Plan	friction, force	3-4
Science & Children	2005 February	Insect Eye Exam	insects, compound eyes	3-6
Science & Children	2005 February	Meet the Mealworms	mealworms, snails, observation, inquiry	K-6
Science & Children	2005 February	Nature's Advise Book	ecosystems, nature, writing	3-6
Science & Children	2005 February	Talking Trees	trees, measurment, literature	K-6
Science & Children	2005 March	The Integrated Curriculum	integrated, china , life cycles, light, shadow, moon, silkworms	K-6

Topic	Book	Activity	Key Words	Grade
Science & Children	2005 March	Oil on a Feather	oil spill, feather, bird, pollution	3-6
Science & Children	2005 March	Science & Social Studies in a Nutshell	process skills, simple machines, organisms	K-4
Science & Children	2005 April/May	Crystal Clear Science	mineral, crystal	3-8
Science & Children	2005 April/May	Cycling Through Plants	plant, seed	3-6
Science & Children	2005 April/May	Using Models Effectively	process skills, models	4-12
Science & Children	2005 April/May	What Happens to Seeds?	plants, seeds	pK-6
Science & Children	2005 Summer	Comparing Heat Change	heat, earth materials,	K-6
Science & Children	2005 Summer	Earth Mission: rescue	ecology, game, environment	4-8
Science & Children	2005 Summer	Seasons by the Sun	literature, seasons, shadows	K-6
Science & Children	2005 Summer	So, You Want to Host a Family Science Night?	family science night, rockets, chemical change	K-9
Science & Children	2005 Summer	They DIG it!	archeology, mapping	5-8
Science & Children	2005 September	Flower Power	flowers, pigments, chromatography, mixtures	3-6
Science & Children	2005 September	Never too Young for a Concept Map	senses, nutrition, concept map	pK-2
Science & Children	2005 September	Scientist at Work	scientist, science	pK-2
Science & Children	2005 September	Will it Sink or Not?	sink, float, density	K-6
Science & Children	2006 January	Teaching Through Trade Books	life cycles, insects	K-6
Science & Children	2006January	The Matter of Melting	states of matter, melting	K-3
Science & Children	2006 January	Dinosaur Day	dinosaurs	K-3
Science & Children	2006 January	Science Shorts	observation skills	K-3
Science & Children	2008 April/May	Action Research Meets Engineering Design	strategies, implementation	4-6
Science & Children	2008 April/May	The Elementary Students' Science Beliefs Test	attitudinal, testing,	4-6
Science & Children	2008 April/May	In Praise of Performance-Based Assessments	testing, assessment, hands-on	2-6
Science & Children	2008 April/May	Let's Fight for Inquiry Science!	testing, assessment, hands-on	K-6
Science & Children	2008 April/May	Assessing Children's Career Aspirations	careers, scientists	K-6
Science & Children	2008 April/May	Bring the Zoo to You!	zoo, classroom	K-2
Science & Children	2008 April/May	Capturing the sights and Sounds of Aquatic Life	whale, seine, hydrophone	4-6
Science & Children	2008 Summer	You Can Get What You Want	funding, community resources	
Science & Children	2008 Summer	Discovery Bottles	magnets, statis electricity, sink or float	K-2
Science & Children	2008 Summer	Everybody Loves a Prism	collections, shells, insects, rocks	
Science & Children	2008 Summer	A Garden of Learning	ethnobotany, native plants	
Science & Children	2008 Summer	Sun Savvy Students	SunWise Program, sunburn, health	
Science & Children	2008 Summer	Materials Repurposed	recycling, air circulation, sediment tubes, mystery boxes, hovercraft, funnel, cup, graduated cylinder	
Science & Children	2008 Summer	Science Books for Professional Pleasure Reading		
Science & Children	2008 Summer	Going Places With Books		
Science & Children	2008 Summer	Using Drawing Strategically	observation,	3-4
Science & Children	2008 Summer	Project Bud Burst	plant, environment, data collection,	4-6
Science & Children	2008 October	Color Investigations	light, pigment, exploration, observation	
Science & Children	2008 October	When Things go Wrong, the Results Can Turn Out Right	germination, inquiry	5
Science & Children	2008 October	The Many Levels of Inquiry	dancing raisins, soda can float	
Science & Children	2008 October	Investigating with Charles Darwin	plants, earthworm, observation,	3-5
Science & Children	2008 October	Worms Out of This World	earthworms, ovservation,	
Science & Children	2008 October	The Better Boat Challenge	boat building, race, data collection, measurement, problem solving, design	3
Science & Children	2008 October	The Benefits of Scientific Modeling	construction, critical thinking, exploration, model, prediction,	
Science & Children	2008 October	Experimental Error	popped corn, measurement,	
Science & Children	2008 November	The Story of Corn	comparison, measurment	
Science & Children	2008 November	Scientific Journals: A Creative Assessment Tool	investigations, writing, vocabulary, poetry, essays, rubric, letters	3
Science & Children	2008 November	Connections Charts and Book Talk Groups	narrative literature	
Science & Children	2008 November	Becoing a Spider Scientist	Charlotte's Web, orb weaver spider, vocabulary web	3
Science & Children	2008 November	The P.O.E.T.R.Y. of Science	assessment, science journals, predict, observe, explain, think, refliect, yearn to learn more, language arts	

Topic	Book	Activity	Key Words	Grade
Science & Children	2008 November	The Science And Literacy Framework	science content, processes, teaching strategies, integrated curriculum	
Science & Children	2008 November	Integration with Integrity	ELL, exploration, spiders, Insect, read aloud,	
Science & Children	2008 November	Encouraging Visual Literacy	models, diagram, models, observation	
Science & Children	2008 November	How do atomic clocks work?	time, measurement, electromagnetic waves,	
Science & Children	2008 December	Air Is A Substance	mass, force, air, exploration	K-1
Science & Children	2008 December	What the Matter With Teaching Children About Matter?	exploration, states of matter	
Science & Children	2008 December	The Ultimate Fizz	baking soda, vinegar, graphing, measurement, data collection	5
Science & Children	2008 December	Water in Disguise	demonstration, water, states of matter	
Science & Children	2008 December	Multisensory Strategies for Science Vocabulary	windowpanes, mystery, canisters, hardness scale, ELL, word wall,	3
Science & Children	2008 December	Dinosaur Extinction, Early Childhood Style	community, exploration	K
Science & Children	2008 December	Connecting Children to Their World	lesson plans, concept webbing, assessment	
Science & Children	2008 December	Concept Focused Teaching	big ideas, inquiry	
Science & Children	2008 December	Comparing Liquids	surface tension, observation, graphing, physical properties	
Science & Children	2008 December	What Causes the Different states of Matter?	molecules, temperature, attration, pressure, atoms	
Science & Children	2009 January	What Sort of Feather?	birds, feathers, wool, observation, hair	
Science & Children	2009 January	Just Like Real Scientists	Jane Goodall, Ian Gilby, animal behavior, data collection, chimpanzee, exploration	
Science & Children	2009 January	Practitioer Research Success	data collection, observation, human interaction	
Science & Children	2009 January	Process Skills Practice and Standardized Tests	validity	
Science & Children	2009 January	First-Grade Record Keepers	observation, salamander larvae, life cycles, data collection	
Science & Children	2009 January	A Picture is Worth a Thousand Words	digital camera, observation, zoo, 5E learning cycle, rubric	2
Science & Children	2009 January	An o-'fish'-ial Research Project	presentation skills, marine life, writing, rubric,	
Science & Children	2009 January	Enhancing Science for ELLS	oral language	
Science & Children	2009 January	Organizing Weather Data	daily weather, data collection,	
Science Scope	2005 April/May	Good, Messy, Frothing Fun: Teaching Problem-Based Lab Safety	crime scene investigation, lab safety	5-8
Science Scope	2005 April/May	Raise: Using Geospatial Technology in the Public School	GSI, GPS	5-8
Science Scope	2005 April/May	Modeling Geyser Eruptions in the Classroom	geyser, model	
Science Scope	December 2007	Moon Phase as a Context for Teaching Scale Factor	relative size and distance of sun, earth, moon, scaling	5-9
Science Scope	December 2007	En"light"ening Geometry for Middle School Students	hands-on, properties of light energies, geometric concepts	5-9
Science Scope	December 2007	Inertial Mass	inertial balance, quantitative idea, mass, line graphs, predictions	5-9
Science Scope	December 2007	Making and Measuring a Model of a Salt Marsh	accuracy, precision, salt march, ecology, salt marsh health	5-9
Science Scope	December 2007	Biotechnology in the Middle School Curriculum	DNA extraction, immunoassay lab, crime scene	5-9
Science Scope	2008 January	Cartoons-An Alternative Learning Assessment	force and motion, cartoons	5-8
Science Scope	2008 January	This Isn't English Class! Using Writing as an Assessment Tool in Science	interdisiplinary, student writing	5-8
Science Scope	2008 January	Assessing Scientific Inquiry	academic growth, assessment	5-8
Science Scope	2008 January	Assessing Student Presenation from Three Perspectives	extended feedback, assessment, feedback	5-8

Topic	Book	Activity	Key Words	Grade
Science Scope	2008 January	Teaching Earth Science Using Hot Air Balloons While Integrating Content Across Subject Areas	hot air balloons, metric measurement, proportions, trigonometric funcitons, density, convection, data collection, analysis, engineering	5-8
Science Scope	2008 February	The Fish Kill Mystery: Using Case Studies in the Middle School Classroom	case study, fish	5-8
Science Scope	2008 February	How About a Log for Lunch	gut fauna, termite, mutualistic relationship, protists	5-8
Science Scope	2008 February	How Do Our Actions Affect Water Quality and Quantity?	hydrogeology models, water quality and quantity, watershed	5-8
Science Scope	2008 February	There's More to Light Than Meets the Eye	observations and measurements of ligh	5-8
Science Scope	2008 March	Problem Solving with Patents	patents, creative ideas and inventions	K-12
Science Scope	2008 March	Science Safaris: Devleoping Bold Academic Explores Outside the Sceince Classroom	outdoors, excursions, national parks, safaris	Adult
Science Scope	2008 March	Bumpy. Sticky, and Shaky: Nanoscale Science and the Curriculum	nanoscience, one billionth	Adult
Science Scope	2008 March	Going on a Science Trek!	science in neighborhood	K-12
Science Scope	2008 March	Making Mitosis Visible	mitosis, interactive visualizations, inquiry	K-12
Science Scope	2008 March	Outstanding Sceince Trade Books for Students k-12	Children's Book Council	K-12
Science Scope	2008 April/May	A Consumer Giuide to Professional Development	porfessional development,	
Science Scope	2008 April/May	University Pratnership to Deliver Statewide Professional Development	Fort Hays State Universtiy, professional development institute	9-12
Science Scope	2008 April/May	Teaching Students to Think Like Scientists During Cooperative Investigations	thinking roles, disucssion, scientific investigations, reasoning, involvement	9-12
Science Scope	2008 April/May	Diagnosing and Dealing With Student Misconceptions: Floating and Sinking	density, misconception	9-12
Science Scope	2008 April/May	Science Sampler	whale food, nanoscale, engineering adventures, environmental stewardship	9-12
Science Scope	October 2008	Take It Outside!	earth science, electronic field trips, Yellowstone, natural world	5-9
Science Scope	October 2008	The Sea Ice Board Game	earth sceince, Arctic Climate Modeling Program, sea ice, cycle	5-9
Science Scope	October 2008	The 23rd Annual Consortium of Geologists	plate techtonics, continental drift, hypotheses	5-9
Science Scope	October 2008	Networking Antarctic Research Discoveries to a Science Classroom	Antarctica, collaborative effort, virtual field trip	5-9
Science Scope	October 2008	The Great Dinosaur Feud: Science Against All Odds	rival scientists, Edward Cope, Othniel Marsh, dinosaur fossils, new dinosaur species	5-9
Science Scope	November 2008	Learning to Write and Writing to Learn in Science: Refutational Texts and Analytical	writing skills, technique, content knowledge, science misconceptions	5-9
Science Scope	November 2008	Media and Science: Developing Skepticism and Critical Thinking	critically analyze claims and content	5-9
Science Scope	November 2008	The Thinking Machine: A Physical Science Project	Rube Goldberg, speed, velocity, acceleration, Newton's laws, ismple machines	5-9
Science Scope	November 2008	Designing the Perfect Plant: Activities and a Game to Investigate Plant Ecology	long-term survival growing plamts, adaptations	5-9
Science Scope	January 2009	Straight from the Mouths of Horses and Tapirs: Using Fossil Teeth to Clarify How Ancient Envrionments Have Changed Over Time	reconstruct past environments, evidence, fossil teeth	5-9
Science Scope	January 2009	Networking Antarctic Research Discoveries to a Science Classroom	expert readers, increase concept knowledge	5-9
Science Scope	January 2009	From Aristotle to Today: Making the History and Nature of Science Relevant	timeline, solar system evolution	5-9

Topic	Book	Activity	Key Words	Grade
Science Scope	January 2009	Extracting the Max From a DNA Extraction	DNA extraction lab, low-cost, explore	5-9
Science Scope	January 2009	Seeking Other Worlds	NASA, Kepler Mission, search for Earth-size planets, habitable planets, stars	5-9
Science Scope	February 2009	A Geospatial Scavenger Hunt	spatial thinking, GPS, Google Earth, waypoints	
Science Scope	February 2009	Tread Lightly The Truth About Science Fiction	5 E Learning model, concept web, Venn diagram, texture, friction, shoes	
Science Scope	February 2009	Botanical Scavenger Hunt	timeline, botanicals	
Science Scope	February 2009	Inductive & Deductive Science Thinking	lesson plans, teacher info, hypothesis	
Science Scope	February 2009	Biological Clocks and Circadian Rhythms	shamrocks plants, experiment, critical thinking, data collection	
Science Scope	February 2009	Using Seashells to Teach classification	inquiry, sorting, data collection,	
Science Scope	February 2009	Chipping Away at the Rock Cycle	investigation, data collection, lab	
Science Scope	February 2009	Thinking Spatially: Taking Observation, Classification, and Communication Skills to a Higher Level of Reasoning		
Science Teacher	September 2007	Fall Colors, Temperature, and Day Length	internet data, seasonal patterns and climate	9-12
Science Teacher	September 2007	Schoolyard Microclimate	differences between weather and climate, natural variation	9-12
Science Teacher	September 2007	Climate Physics	climate change	9-12
Science Teacher	September 2007	A Record of Climate Change	web-based activity, Earth's climate	9-12
Science Teacher	September 2007	Feel the Pulse of Earth Science!	Earth Science Week 2007	9-12
Science Teacher	September 2007	A Cooperative Classroom Investigation of Climate Change	environmental changes, impact on penquin communities	9-12
Science Teacher	September 2007	Formative Assessment: Redirecting the Plan	Formative assessment techniques, science classroom	9-12
Science Teacher	2007 November	Science Teaching and International Assessemnts	PISA, TIMSS	9-12
Science Teacher	2007 November	Using Japanese Lesson Design to Anticipate an Invasion on Maui	Ants, unity, envrionmental, evolution, pest management	9-12
Science Teacher	2007 November	Bulding Migratory Bridges	birds, global, conservation	9-12
Science Teacher	2007 November	Reflections on Czech Science Teaching	Czech Republic	9-12
Science Teacher	2007 November	Nuturing the Nature of Science	nature of science,	9-12
Science Teacher	2007 December	Fun with Ionic Compounds	inoic bonding, games, engage	9-12
Science Teacher	2007 December	Recycled Insect Models	dichotomouous key, insect mdoel, taxonomy	9-12
Science Teacher	2007 December	Nontraditional Card Sorts	critical thinking, inquiry	K-8
Science Teacher	2007 December	Using a Digital Video Camera to Study Motion	data loggers, probeware, video camera, motion	K-12
Science Teacher	2007 December	Science as a Moving Experience for All Elarners	pedometer	K-12
Science Teacher	2007 December	Modeling Muscles	leg-muscle models, models muscle	K-12
Science Teacher	2008 January	Multiple Modes of Inquiry in Earth Science	sceintific process, laboratory experimentation	K-12
Science Teacher	2008 January	Redefining Earthquakes and the Earthquake Machine	Earthwquake machine lite, causes of earthquakes	K-12
Science Teacher	2008 January	Students at the Edge of Space	BalloSats, space	4-8
Science Teacher	2008 January	Marquee Fossils	geology, biology, environmental science	
Science Teacher	2008 January	Thinking like an Ecologist	global change, ecologist	4-8

Topic	Book	Activity	Key Words	Grade
Science Teacher	2008 January	Investingation the Earth and Its Environment	inquiry-based learning, intergrated science topics, alternative assessment, technology	
Science Teacher	2008 February	Back to the Future?	role of 19th-century study, 21st ccentury science	9-12
Science Teacher	2008 February	Place-Based Investigations and Authentic Inquiry	student engagement, hands-on activities, purposeful learning	9-12
Science Teacher	2008 February	It's All About Choice	inquiry, animal environment preferences	9-12
Science Teacher	2008 February	The 1988 Fires in Yellowstone	conservation in America, charting	9-12
Science Teacher	2008 February	Ecological Field Studies	field studies, scientific process, ecological content	9-12
Science Teacher	2008 February	It's a Zoo Out There!	inquiry, authentic ethological methods	9-12
Science Teacher	2008 February	Under the Mistletow	guides inquiry, life science classroom	9-12
Science Teacher	2008 March	Oceanography for the Visually Imparied	magnifiers	
Science Teacher	2008 March	Weaving the story of Science	nature of science, scientists	
Science Teacher	2008 March	Helping Student with Learning Disabilities Succeed	Learning disabilities	
Science Teacher	2008 March	Sounds Like Success: A Framework for Equitable Assessment	English Languag learners, Ell, ESL	
Science Teacher	2008 March	Helping Students Write Better Conclusions	sentence completion, language of science	
Science Teacher	2008 March	Outstanding Scince Trade Books for Students K-12	literacy, books	
Science Teacher	2008 March	Increasing the Drive of your Physics Class	force, paper cars, design	
Science Teacher	April/May 2008	Making Science Relevant	water-monitoring programs, protect local waterways	9-12
Science Teacher	April/May 2008	How Accurate Are Student-Collected Data?	water-quality data, scientists and student data compared	9-12
Science Teacher	April/May 2008	Cougars and the Community	field investigations, civic participation, human/cougar relationships	9-12
Science Teacher	April/May 2008	A Museum Learning Lab	community partners, interactive lab	9-12
Science Teacher	April/May 2008	Motivating Students With Robotics	science skills, robotics course, international competition, FIRST< For Inspiration and Recognition of Science Technology	9-12
Science Teacher	April/May 2008	Corrosion in the Classroom	corrosion of steel, lab activities	9-12
Science Teacher	April/May 2008	Real Science or Marketing Hype?	antimicrobial effects of silver nanoparticles, student designed experiments	9-12
Science Teacher	Summer 2008	Take a Voyage of Discovery	reading suggestions for teachers	9-12
Science Teacher	Summer 2008	The Nature of Science in Popular Nonfiction	literacy skills, science books	9-12
Science Teacher	Summer 2008	Reading Aloud	integrating science and literature	9-12
Science Teacher	Summer 2008	Structuring the Level of Inquiry in Your Classroom	rubric, compare experiments, inquiry based, trajectories	9-12
Science Teacher	Summer 2008	Realize Your Mentoring Success	interactions, new science teachers, mentors	9-12
Science Teacher	Summer 2008	Using All Available Toold	ELL, English language learners, teach English	9-12
Science Teacher	September 2008	Mapping for Conceptual Change	concept mapping, scientific understanding	9-12
Science Teacher	September 2008	Whole-Class Inquiry Assessments	solve problems, students work together, scientific community	9-12
Science Teacher	September 2008	Creativity in the Science Classroom	think outside the box, four activities	9-12

Topic	Book	Activity	Key Words	Grade
Science Teacher	September 2008	Tips for the Traveling Teacher	traveling teacher, effectively teach science while moving classrooms	9-12
Science Teacher	September 2008	IceCore Investigations	explore climate change, ice core samples	9-12
Science Teacher	September 2008	Enzyme Inquiry	inquiry lesson, caatalytic activity of amylase on startch	9-12
Science Teacher	September 2008	No Child Left Inside	Earth Science Week 2008	9-12
Science Teacher	October 2008	Caught in Their Tracks	research projects, wildlife ecology	7-12
Science Teacher	October 2008	PREPping Students for Authentic Sciencde	plant genes, student research	7-12
Science Teacher	October 2008	Real-Time Ocean Data in the Classroom	internet research, ocean research	7-12
Science Teacher	October 2008	Teaching the Anatomy of a Scientific Journal Article	inquiry based, engage students	7-12
Science Teacher	October 2008	A Useful Laboratory Tool	thermal gradient, science club, temperature research	7-12
Science Teacher	October 2008	The Quiet Skies Project	radio frequency interference, RFI, radio astronomy	7-12
Science Teacher	November 2008	Project-Based Sceince Instruction: A Primer	introduction and learning cycle for implementing project-based science	7-12
Science Teacher	November 2008	Planning for Success	PBS, project-based science	7-12
Science Teacher	November 2008	The Driving Question Board	visual organizer, project based science	7-12
Science Teacher	November 2008	How Do Geckos Stick?	project-based science, chemistry	7-12
Science Teacher	November 2008	Problem-Bases Learning Tools	PBS pedagogy, project based science	7-12
Science Teacher	November 2008	The Herpetology Project	student constructed traps,analyze turtle data	7-12
Space Science	NASA	SpinOffs	tax dollars, space,	4-8
Space Science	US Postal Service	Space Coloring Book	astronauts, stamps, US Postal Service, mazes, puzzles, games	4-8
Space Science		Book It: Space	space, literature, literacy connections	4-8
Space Science		Gravity	gravity, song, sayings, elevator	4-8
Space Science		Poetry	poetry, poems, choral reading, literature, painting, limericks,	4-8
Space Science		Race to Space	timeline, race to space, milestones	4-12
Space Science		Space Milestones	space exploration, milestones, time line, space	4-12
Space Science		Spacecraft	US, manned spacecraft,. Milestones, timeline	4-12
Space Science: Earth/Moon	Exploring Mars	Phases of the Earth's Moon	earth/moon connection, moon phases, observation, data collection	3-6
Space Science: Earth/Moon	Investigating Science: Space	Moon Lore Minibook	moon, minibook, meteorites, lunar, orbit, satellite, maria	
Space Science: Earth/Moon	Mission Geography	Module 1: US at night puzzle	geography, US, night, North America, puzzle	
Space Science: Earth/Moon	NASA	Moon Gameboards	moon, gameboards	
Space Science: Earth/Moon	NASA	Rediscovering the Moon	lunar Prospector, moon, robotics, design,	K-6
Space Science: Earth/Moon	Solar System Activities Book	Orbit	rotation, revolution, orbit, planet, sun , moon,earth	4-8
Space Science: Earth/Moon		Apollo Exploration of the Moon	moon, observation, Apollo, space exploration, Moon rocks	4-8
Space Science: Earth/Moon		Critical Features of the Moon	moon, observation, night sky, calendar, phases, fractions, game	K-4

Topic	Book	Activity	Key Words	Grade
Space Science: Earth/Moon		Lunar Fractions	moon, observation, night sky, Moon Bear, calendar, phases, fractions, game	
Space Science: Earth/Moon		Observing the Moon	moon, features, craters, observation,	4-8
Space Science: Earth/Moon		There's A Full Moon Tonight	graphing, satellites, moons, animals, daily rhythms	4-8
Space Science: Human	Challenger	Dehydrate/Rehydrate	astronauts, space, space exploration, ISS, space food; humans in space, dehydrate, rehydrate	K-6
Space Science: Human	Challenger	Design A Food Tray	astronauts, space, space exploration, ISS, space food; humans in space, design	K-6
Space Science: Human	Challenger	Design a Space Helmet	space, space exploration, helmet	K-6
Space Science: Human	Challenger	Disorientation	astronauts, space, space exploration, ISS, disorientation; humans in space	5-12
Space Science: Human	Challenger	Training To Work in Space	astronauts, space, space exploration, ISS, humans in space, dexterity	5-12
Space Science: Human	Challenger	Types of Space Food	astronauts, space, space exploration, ISS, space food; humans in space	5-12
Space Science: Human	From Outerspace to Innerspace: Muscles and Bones	Arm Model Observations; Activity 2	human body, muscles, measurement, arm	
Space Science: Human	From Outerspace to Innerspace: Muscles and Bones	Balancing Act: Activity 7	human body, balance point,	3-5
Space Science: Human	From Outerspace to Innerspace: Muscles and Bones	Stress This: Activity 8	human body, muscles, stress, movement, observation, measurement, prediction	
Space Science: Human	Living In Space?	Space Countdown	space, problem solving, cooperative learning, logic	4-8
Space Science: Human	NASA	Toys In Space	airplane, astronauts, shuttle, marbles, gyroscope, top, mouse, yo-yo, jacks, wheelo, car on circular track, paddleball, slinky,	4-8
Space Science: Human	NASA	Astronaut	astronaut, spacesuit	4-8
Space Science: Human	NASA Facts	Wardrobe For Space	spacesuit, EVA, space shuttle,	
Space Science: Human	Soaring Through the Universe	Space Food	astronauts, space, space exploration, space shuttle, space food; humans in space; space travel	4-8
Space Science: Human	Space Center Houston	Crew Capers	space, space exploration, problem solving, cooperative learning, logic	4-8
Space Science: Human		Cramped Quarters	astronauts, space exploration, mission, space clothes, measurement, area, design	
Space Science: Human		Crew Coloring Sheets	astronauts, space exploration, space clothes	
Space Science: Human		Crew Sheets	space exploration, mission patches, astronauts, journals	4-12
Space Science: Human		Dexterity	activities, measurement, dexterity, time, human, spaceflight	
Space Science: Human		Prepare A Space Meal	astronauts, space, space exploration, shuttle, food, design	
Space Science: Human		Preserve It!	astronauts, space, space exploration, shuttle, food, refrigeration	
Space Science: Human		Scrumptious Space Shuttle	astronauts, space, space exploration, shuttle, food	
Space Science: Human		Suitable Suit	astronauts, spacesuit, sequencing	
Space Science: Robotics	Liftoff to Learning:Let's Talk Robotics	Design a Microrover for the Moon	robot, hands, design, problem solving	
Space Science: Robotics	Liftoff to Learning:Let's Talk Robotics	Robot Arm and End Effector	robot, arm, hands, design, problem solving	

Topic	Book	Activity	Key Words	Grade
Space Science: Robotics	Liftoff to Learning:Let's Talk Robotics	Robot Hand	robot, hands, design, problem solving	
Space Science: Robotics	Mars Pathfinder Mission	Design a Robot	robot, hands, design, problem Sojourner, MARs, solving	K-2
Space Science: Robotics		Making Robots out of Junk	robot, hands, design, problem solving	K-6
Space Science: Solar System	Destination: Mars	Looking For Life	Mars, life, Viking Lander, space exploration, soil, data collection, problem solving, solar system, planets	
Space Science: Solar System	Exploring Mars	# 5: Understanding Air Resistance	Pathfinder, Mars, space exploration, measurement, parachutes, air resistance, design	K-6
Space Science: Solar System	Exploring Mars	#1: Rocket Launch	Pathfinder, Mars, space exploration, rocket, launch, design, problem solving, solid fuel, liquid fuel, Newton's third law	2-4
Space Science: Solar System	Exploring Mars	#3: Understanding Gravity	Pathfinder, Mars, space exploration, measurement, gravity, design	
Space Science: Solar System	Exploring Mars	#7: Egg Drop	Pathfinder, Mars, egg drop, engineer, landing, design, problem solving	
Space Science: Solar System	Exploring Mars	#9: Time Delay Activity	Pathfinder, Mars, space exploration, measurement, time delay, radio waves, signal delay, game	
Space Science: Solar System	Exploring Mars	Crater Making	moon, construct, recording data, meteoroid, chart	8-12
Space Science: Solar System	Investigating Science: Space	Awesome Astronomers	astronomers, problem solving	6-8
Space Science: Solar System	Investigating Science: Space	Dirty Snowballs	comets, Halley's comet,	6-8
Space Science: Solar System	Investigating Science: Space	Eye In the Sky: constellations	constellations, observation	
Space Science: Solar System	Investigating Science: Space	The Sun: Earth's Spectacular Star	star, sun-earth connection, layers of the Sun, corona, chromosphere, photosphere, convection zone, radioactive zone, core, solargram, aurora, solar wind	K-4
Space Science: Solar System	Investigating Science: Space	Wait, That's Space Weight!	weight, number sense, decimals, planet, gravitational pull, gravity	
Space Science: Solar System	Mars Pathfinder	3-D View of Mars	rover, space exploration, Mars, filters, 3-D,	
Space Science: Solar System	Mars Pathfinder	Mars Bingo	bingo, Mars, solar system, planets, game	
Space Science: Solar System	Mars Pathfinder	Martian Motion	Mars, planets, orbit, speed, comparison, data collection	
Space Science: Solar System	Mars Pathfinder	Mission to Mars	Mars, planets, game, solar system, probability, spacecraft,	2-4
Space Science: Solar System	Mission: Mathematics	Are We there Yet?	space travel, space, game, satellite, coordinates, x-y axis	k-5
Space Science: Solar System	Mission: Mathematics	How Big Are the Rocks?	planets, Apollo, geology, weight, volume, measurements, Mars, meteorites	
Space Science: Solar System	Mission: Mathematics	How Much Does the Milky Weigh?	measurement, milky way, universe, solar system, estimation, patterns	
Space Science: Solar System	Mission: Mathematics	Journey To Jupiter	planets, Jupiter, solar system, measurement, game, probability, data collection,	
Space Science: Solar System	Mission: Mathematics	Our Solar System	model, solar system, measurement, space travel, space, planets, scale, models, distance, orbit, planetary alignment, revolution, data collection	
Space Science: Solar System	Mission: Mathematics	Probing the Planets	planets, solar system, graphing, data collection, sizes, distances, metrics	2-4
Space Science: Solar System	Mission: Mathematics	Spheres In Space	circles, spheres, space, sphere, measurement, diameters, circumference	
Space Science: Solar System	NASA	Asteroid Maze	asteroid, puzzle, solar system, maze, problem solving	
Space Science: Solar System	NASA	Placemat	space, placemat, art, solar system, spacecraft, planets	k-5

Topic	Book	Activity	Key Words	Grade
Space Science: Solar System	NASA	Solar System websites	planets, space exploration, remote sensing, solar system, sun, websites	
Space Science: Solar System	NASA: Genesis Mission	Cosmic Chemistry: Planetary Diversity	chemistry, solar system, space exploration, planets, plasma, infrared, spectroscopy, solar wind, temperature, space, magnetosphere	4-8
Space Science: Solar System	NASA: Hubble Space Telescope Deep Field	#2:Classifying and Identifying	hubble space telescope, universe, galaxies, stars, observation, problem solving	
Space Science: Solar System	NASA: Hubble Space Telescope Deep Field	What Does a Million Look Like?	hubble space telescope, universe, galaxies, stars, observation, problem solving, number sense	K-3
Space Science: Solar System	NASA: Mars Millennium Project	Mars Millennium	mars, millennium, planet, environment, space	
Space Science: Solar System	NASA: Planet Hopping	Planet Hopping	game, planets, solar system	
Space Science: Solar System	NASA: Spaceplace	Galaxy Images	galaxies, solar system, images	
Space Science: Solar System	Planets	Mars Ice Caps	Mars, planets, ice caps, dry ice, carbon-dioxide, atmospheres, solar system,	
Space Science: Solar System	Project ASTRO	Earth as a Peppercorn	scale, solar system, measurement, universe, metric, model, planets	
Space Science: Solar System	Project ASTRO	Remember the Egg	egg, astronomy, observation, data collection	
Space Science: Solar System	Solar System Activities Book	Asteroid	asteroid, solar system, orbit, design	
Space Science: Solar System	Solar System Activities Book	Autobiography of a Star	scrapbook, slide show, play, script, writing, star, cooperative learning	K-12
Space Science: Solar System	Solar System Activities Book	Comet	comet, nucleus, coma, solar system, design	
Space Science: Solar System	Solar System Activities Book	Galaxies	galaxies, solar system, mobile, design	K-4
Space Science: Solar System	Solar System Activities Book	Mercury	planets, solar system, Mercury, orbit, food	
Space Science: Solar System	Solar System Activities Book	Neptune	planets, solar system, Neptune, density, sink, float	
Space Science: Solar System	Solar System Activities Book	Satellite	graphing, satellites, moons, planets	
Space Science: Solar System	Solar System Activities Book	Saturn	planet, solar system, Saturn, food	K-3
Space Science: Solar System	Solar System Activities Book	Solar System	Milky Way, galaxy, comets, asteroids, meteoroids,	
Space Science: Solar System	Solar System Activities Book	Solar Writing	writing, solar system, songs, authors, classification	
Space Science: Solar System		Brain Busters	problem solving, mathematics, solar system, planets, logic, critical thinking, planets, game	
Space Science: Solar System		Earth, Moon, Mars Balloons	Earth, Moon, Mars, balloons, comparison, relative size, planets, solar system, measurement	4-8
Space Science: Solar System		Making A Comet	comet, dry ice	K-8
Space Science: Solar System		Planet Visors	planets, ordering, solar system	5-12
Space Science: Solar System		Please Line Up	solar system, planets, cooperative learning, problem solving	
Space Science: Solar System		Pluto	planets, Pluto, solar system, reflection	4-8
Space Science: Solar System		Postcards From Space	space, planets, writing	K-12
Space Science: Solar System		Sizing Up the Planets	planets, size, comparison, measurement, metric, compass, solar system, diameters, paper models, space	K-12
Space Science: Solar System		Solar System Bead	solar system, planets, measurement, beads, metric	K-12
Space Science: Solar System		Solar System Bingo	bingo, space, solar system, NASA	K-6

Topic	Book	Activity	Key Words	Grade
Space Science: Solar System		Solar System Calendar	solar system, time, calendar, planets	K-12
Space Science: Solar System		Solar System Launch	space, space exploration, cooperative learning, measurement, graphing	
Space Science: Solar System		Space Jingo	space, bingo, game	4-8
Space Science: Solar System		Space poems and songs	gravity, rocket, outer space, stars, astronaut, space, songs, poems, planets, sun	K-4
Space Science: Solar System		Stars and Constellations 101	constellations, winter, summer, autumn, pattern pages, spring, observational astronomy, spectrum gases	4-8
Space Science: Solar System		Strange New Planet	space exploration, planets, observation, remote sensing, data collection	6-9
Space Science: Solar System		String Art Comet	comet, art, problem solving, spatial awareness	7-12
Space Science: Solar System		Tangrams In Space	space, solar system, rockets, tangrams, spatial awareness	K-12
Space Science: Solar System		The Rocky Planet Weather Report	astronomy, weather, inner planets, play, group activity	3-8
Space Science: Solar System		Thinking Loops	thinking loops, space, problem solving, cooperative learning, planets	K-6
Space Science: Solar System		When Is a Satellite NOT A Satellite?	satellites, probes, games, solar system, game board,	
Space Science: Spacecraft	Challenger	$5 - Staging Rockets	launch, spacecraft, rocket, propellant, fuel, rocket stages, multi-staged rocket, balloons, observation,	
Space Science: Spacecraft	Challenger	Launching a Space Shuttle	simulate, construct, sequence steps, data chart	
Space Science: Spacecraft	Challenger	Scale Model Solar System	Voyage, size, distance, models, measurements,	
Space Science: Spacecraft	Challenger	ISS Setup	ISS, space station interior, design	4-8
Space Science: Spacecraft	NASA	757 Glider	aeronautics, spacecraft, glider, design, 757	4-8
Space Science: Spacecraft	NASA	Ground Stations	shuttle, ground stations, tracking, cockpit, flight suit, Atlantis, Discovery; Endeavor	
Space Science: Spacecraft	NASA	Robot Spacecraft Explore the Solar System	robotics, spacecraft, space exploration, Mariner 4-9, Magellan, , Pioneer Venus, Pioneer I, Pioneer 2, Viking, Pathfinder, Sojourner, Global Surveyor, Galileo, Cassini, Voyager I, Voyager 2,	
Space Science: Spacecraft	NASA	Shuttle coloring page	space exploration, shuttle, coloring page	2-4
Space Science: Spacecraft	NASA	Space coloring sheets	ISS, space station interior, Space, moon, future explorations, coloring sheet	
Space Science: Spacecraft	NASA	Spacecraft	Hubble telescope, Voyager, Galileo, Mercury, Gemini, Apollo	2-4
Space Science: Spacecraft	NASA:	Hubble Challenge	Hubble Space Telescope, maze, puzzle,	
Space Science: Spacecraft	NASA: Aeronautics	Aerospace Mini-Book of Logic and puzzles	creative thinking, distance, solar system, astronaut,	
Space Science: Spacecraft	NASA: Aeronautics	Glider Templates	glider, x-glider, aeronautics, spacecraft, airplanes, design, problem solving	4-12
Space Science: Spacecraft	NASA: Chandra X-ray Observatory	Chandra X-ray Observatory: Spacey Maze	Chandra, x-ray, puzzle, maze	K-12
Space Science: Spacecraft	NASA: Earth to Orbit Design Challenges	Thermal Protections Systems	heat, design, earth, orbit, spacecraft, shuttle, prototypes, thermal protection, engineering	K-3
Space Science: Spacecraft	Science Scope	Rocketing into Adaptive Inquiry	designing investigation, synergistic relationship, variables, data chart, launch system,	
Space Science: Spacecraft	Technology	Flying Saucer-Blimp	spacecraft, blimp, flying saucer, technology, ALT, turbofan,	
Space Science: Spacecraft		Eye In the Sky Making a Model	Hubble Space Telescope, design, model	

Topic	Book	Activity	Key Words	Grade
Space Science: Spacecraft		ISS Mission Log	ISS, space station, mission logs, measurement	
Space Science: Spacecraft		Rover Races	mars, space exploration, spacecraft, problem solving, measurement, technology, physical activity	
Space Science: Spacecraft		Santa's X-25	Santa, spacecraft, X-25, Christmas, space travel	
Space Science: Sun and Stars	From Outerspace to Innerspace: Sleep and Daily Rhythms	Day and Night	sunshine, sun, light, sleep, day and night	
Space Science: Sun and Stars	From Outerspace to Innerspace: Sleep and Daily Rhythms	Shadow Clock	clock, shadows, sundials, day, night, sun	
Space Science: Sun and Stars	NASA	Hershel's Experiment	prisms, sun, heat, infrared, data analysis, thermometer	4-8
Space Science: Sun and Stars	NASA	I Tell Only Sunny Hours	sundial, sun	9-12
Space Science: Sun and Stars	Solar System Activities Book	Constellation Celebration	legends, stars, constellations, maps of the stars	
Space Science: Sun and Stars	Solar System Activities Book	Constellations	constellations, flashlights, stars, night sky	
Space Science: Sun and Stars	Solar System Activities Book	Eclipse	sun, eclipse, observation, literature	
Space Science: Sun and Stars	Solar System Activities Book	Stars	stars, design, blue star, yellow star, red star	
Space Science: Sun and Stars	Solar System Activities Book	The Solar Sky	sun, phases, moon, sky, sun-earth connection, star	1-2
Space Science: Sun and Stars	Solar System Activities Book	Year Round Constellations	constellations, Northern Hemisphere, night sky, Leo, Big Dipper, Little Dipper, Cassiopeia, Pegasus, Orion	3-5
Space Science: Sun and Stars	STARDate	Modeling the Night Sky	night sky, sunrise, sunset, constellations, solar system, objects in the sky	4-8
Space Science: Sun and Stars	The Atmosphere	Solstices and Equinoxes	sun, earth, solstices, equinoxes, seasons	K-12
Space Science: Sun and Stars	The Best of WonderScience	Canned Constellations	constellations, film canisters, night sky, astronomy	K-3
Space Science: Sun and Stars		Constructing and Using a Star Finder	constellations, Big Dipper, Little Dipper, North Star, centimeter cubes, stars	
Space Science: Sun and Stars		How the Stars Came to Be	folktale, Native American, stars, night sky, constellations,	K-4
Space Science: Sun and Stars		Our Very Own Star: The Sun	sun, children's book, heat, weather, sun-earth connection, sky objects, light	K-4
Space Science: Sun and Stars		Sky Mythology	patterns, sky, constellations, mythology, star finder	K-4
Space Science: Sun and Stars		Solar Energy	sun, solar energy	K-4
Space Science: Sun and Stars		Solar Observations Over Time	time, sun, observations, shadows, statistics, patterns, measurement	K-4
Space Science: Sun and Stars		Star pattern	star, pattern	K-4
Space Science: Sun and Stars		Sunspots	sun, solar activity, sunspots, observation	4-8
Space Science: Sun and Stars		Unraveling the Stars	stars, solar system	
Space Science: Sun and Stars	Imagine the Universe	What Is Your Cosmic Connection to the Elements?	stars, big bang, elements, cosmic rays, supernovae	4-8
				K-8
STARLAB planetarium	How Big Is Your Universe?	Your Galactic Address	maps, solar system, address	
STARLAB planetarium	Scale of the Solar System	A Question of Scale	scale, solar system, measurement, Powers of Ten, universe, metric	K-12
STARLAB planetarium	Volume 2: Activities for the School Planetarium	#1: Let's Look At the Sky	sky objects, observation, nighttime sky, daytime sky, stars	K-16

Topic	Book	Activity	Key Words	Grade
STARLAB planetarium	Volume 2: Activities for the School Planetarium	#2: Shapes In the Sky	constellations; sky objects; observation; shapes	K-8
STARLAB planetarium	Volume 2: Activities for the School Planetarium	#3: Night and Day	night, day, sun-earth connection,	K-4
STARLAB planetarium	Volume 2: Activities for the School Planetarium	#8: Measuring the Brightness of Stars	stars, relative brightness, stars, classification,	K-4
STARLAB planetarium		Make a Comet	comet, design, problem solving	
STARLAB planetarium		National Standards	science standards, astronomy	K-4
				K-4
Teaching Children Mathematics	1990 February	Spatial Sense	geometry, geoboards, cubes, miras, drawings	K-4
Teaching Children Mathematics	1990 February	Communicating About Spatial Relationships	solids, clay solids, plane figures	K-4
Teaching Children Mathematics	1990 February	Making and Exploring Tangrams	geometry, triangles, square,	K-4
Teaching Children Mathematics	1990 February	Developing Spatial Skills with Three-Dimensional Puzzles	3-D, cubes, isometric drawings, views, puzzles	K-8
Teaching Children Mathematics	1990 February	Spatial Sense	research on spatial sense	K-4
Teaching Children Mathematics	1990 February	Promoting Visual Imagery in Young Pupils	tangrams, spatial sense	K-4
Teaching Children Mathematics	1990 February	Developing Spatial Thinking in the Middle Grades: Designing a Space Station	spatial sense, nets, solids	K-4
Teaching Children Mathematics	1992 January	A Dynamic Way to Teach Angle and Angle Measure	angle, straws, protractor	K-4
Teaching Children Mathematics	1992 January	Group Management in the Mathematics Classroom : Exploring Pentominoes	group work, cooperative learning, pentominoes, geometry	K-4
				K-4
Teaching Children Mathematics	1993 September	Language Connections In Mathematics: A Critical Part Of Mathematics Instruction	language manipulatives	K-4
Teaching Children Mathematics	1993 October	20th Century Mathematics for the Elememtary School	math education of elementary teachers	K-4
Teaching Children Mathematics	1993 October	Stick Math	craft sticks, toothpicks	K-4
Teaching Children Mathematics	1993 December	Mean or Meaningless?	M&M's, candy, bar graphs, pattern blocks	K-4
Teaching Children Mathematics	1993 December	Primary Arithmetic: Children Inventing Their Own Procedures	addition, subtraction, algorithms	K-4
				K-4
Teaching Children Mathematics	1994 January	Using Manipulative Effectively: A Drive Down Rounding Road	manipulatives, rounding	
Teaching Children Mathematics	1994 March	Making Connections with Teddy Bears	teddy bears, unit plan	K-4
Teaching Children Mathematics	1994 April	connecting Literature, Language, and Fractions	fractions	
Teaching Children Mathematics	1994 April	Making Connections with Two-Digit Multiplication	multiplication, algorithms	K-4
Teaching Children Mathematics	1994 April	Polydrons and Three-dimensional Geometry	polydrons, nets	K-4
Teaching Children Mathematics	1994 May	Helping and Getting Help-Essential Skills for Effective Group Problem Solving	cooperative learning, problem solving	K-4
Teaching Children Mathematics	1994 September	Improving Students' Sense of 3-D Shapes	spatial sense, nets, cube, views, polydrons	K-4
Teaching Children Mathematics	1994 September	Making Connections From Paper to Pop-up Books	origami, 3D figures, animals	K-4
Teaching Children Mathematics	1994 September	Tips for Teaching Cartesian Graphing: Linking Concepts and Procedures	coordinates, dots, fly on the ceiling, point plotting, patterns	K-4
				K-4

Topic	Book	Activity	Key Words	Grade
Teaching Children Mathematics	1999 February	Developing Geometric Thinking Through Activities That Begin with Play	Geometry, Piaget, Van Hiele	K-4
Teaching Children Mathematics	1999 February	Solving Geometric Problems by Using Unit Blocks	spatial sense, blocks	K-4
Teaching Children Mathematics	1999 February	Educating Hannah: It's a What?	spatial sense	K-4
Teaching Children Mathematics	1999 March	Subitizing: What Is It? Why Teach It?	sets	K-4
Teaching Children Mathematics	1999 March	Are You Puzzled?	tangram, mosaic	K-4
Teaching Children Mathematics	1999 April	Playground Mathematics: Playing with Space	spatial sense	K-4
Teaching Children Mathematics	1999 May	Strategies for Basic-Facts Instruction	arithmetic facts	K-4
Teaching Children Mathematics	1999 September	Developing Thinking Strategies for Addition Facts	addition, subtraction, algorithms	K-4
Teaching Children Mathematics	1999 October	Using Mathematics to Build an Understanding of the US	US, area, graphing	K-4
Teaching Children Mathematics	2001 December	Building and Using the Amazing Abacus	abacus	K-4
				K-4
Teaching Children Mathematics	2002 January	Responses to the Coloring Tetras with Two colors Problem	cubes, tetra	K-4
Teaching Children Mathematics	2002 February	Calculators as Learning Tools for Young Children's Explorations of Number	calculators, technology	K-4
Teaching Children Mathematics	2002 February	Racing Against Time: Using Technology to Explore Distance, Rate, and Time	distance, rate, time	K-4
Teaching Children Mathematics	2002 February	Learning Geometry in a Dynamic Computer Environment	dynamic geometry, technology	K-4
Teaching Children Mathematics	2002 March	Rubber-Band Rockets	rockets, rubber bands, angles	K-4
Teaching Children Mathematics	2002 April	Developing Spatial Understanding Through Building Polyhedrons	polyhedra, spatial sense, polydrons	K-4
Teaching Children Mathematics	2002 April	Multicultural Literature as a Context for Problem Solving: Children and Parents Learning Together	multicultual, books, literature, parental involvement,	K-4
Teaching Children Mathematics	2002 April	Representations in Teaching and Learning Fractions	fractions, models	K-12
Teaching Children Mathematics	2002 April	Providing Opportunities to Learn Probability Concepts	probability, data, chance, sample space	K-4
Teaching Children Mathematics	2002 May	Making Mathematical Arguments in the Primary Grades: The Importance of Explaining and Justifying Ideas	proof	K-4
Teaching Children Mathematics	2002 May	Dino-mite Explorations	dinosaurs, length, weight, measurement	K-4
Teaching Children Mathematics	2002 September	Are We Overemphasizing Manipulatives in the Primary Grades to the Detriment of Girls?	women in math, girls, research, manipulatives	K-4
Teaching Children Mathematics	2002 October	Why Can't I See the Tree? A Study of Perspective	views, geometry	K-4
Teaching Children Mathematics	2002 November	Learning Spanish While Practicing Mathematics Concepts and Skills: A Winning Combination	ESL, ELL, LEP, Spanish, vocabulary	K-4
Teaching Children Mathematics	2002 December	Promoting Communication in the Mathematics Classroom	representations, vocabulary, communication, technical writing, prime numbers	K-16
Teaching Children Mathematics	2002 December	Math in Art	shapes, tangrams	K-4
				K-4
Teaching Children Mathematics	2003 January	The Chinese Numeration System and Place Value	numeration, place value, China	K-4
Teaching Children Mathematics	2003 January	Teaching Mathematics Through Cultural Quilting	symmetry, Hawaii, quilts, stars, line symmetry, Hopi, Ozark, Civil War	K-4
Teaching Children Mathematics	2003 January	Snack Math: Young Children Explore Division	animal crackers, snacks, division, food, partition	K-4
Teaching Children Mathematics	2003 January	The Big Math for Little Kids Early Childhood Mathematics Program	Prekindergarten, Kindergarten, research	
Teaching Children Mathematics	2003 January	Learning Disabled Students Make Sense of Mathematics	Special education	K-4

Topic	Book	Activity	Key Words	Grade
Teaching Children Mathematics	2003 January	Who Should Lead Mathematics Instruction at the Elementary School Level? A Case for Mathematics Specialists	math specialists, Sweden, South Korea	K-4
Teaching Children Mathematics	2003 February	Helping English-Language Learners Develop Computational Fluency	ELL, ESL, LEP	K-4
Teaching Children Mathematics	2003 February	Toward Computational Fluency in Multidigit Multiplication and Division	computation	K-4
Teaching Children Mathematics	2003 March	Making the NCTM Standards User-Friendly for Child Care Teachers	Prekindergarten	K-4
Teaching Children Mathematics	2003 April	Prisms and Pyramids: Constructing Three-Dimensional Models to Build Understanding	3D Figures	K-4
Teaching Children Mathematics	2003 May	Children Who Enjoy Problem Solving	pattern blocks, problem solving	K-4
Teaching Children Mathematics	2003 May	Designing Fraction-Counting Books	fractions, literature, writing	K-4
Teaching Children Mathematics	2003 September	Fractions in the Early-Years Curriculum: More Needed, Not Less	fractions	K-4
Teaching Children Mathematics	2003 September	Hurry Up and Weight	colors, pigments	K-4
Teaching Children Mathematics	2003 September	The Math is Everywhere Preschool Mathematics Curriculum	prekindergarten	K-4
Teaching Children Mathematics	2003 October	Developing Elementary Teachers' "Algebra Eyes and Ears"	algebra	K-4
Teaching Children Mathematics	2003 October	Learning to Think: An American Third Grader Discovers Mathematics in Holland	Holland, pre-service	9-12
Teaching Children Mathematics	2003 November	Multiplication Games: How We Made Them and Used Them	games, multiplication	
Teaching Children Mathematics	2003 November	Building a Box	nets, cube, 3-D	K-4
Teaching Children Mathematics	2003 November	The Missouri Elementary Mathematics Contest: Student Performance on Questions That Reflect NCTM Standards	Math Fair	K-4
Teaching Children Mathematics	2003 November	Building a Vision of Algebra for Preservice Teachers	pre-service, algebra	K-4
Teaching Children Mathematics	2003 December	Transition Points	pattern blocks, problem solving	
Teaching Children Mathematics	2004 January	Inchworm and a Half: Developing Fraction and Measurement Concepts Using Mathematical Representations	fractions, measurement	
Teaching Children Mathematics	2004 January	Mathematical Adventures with Harry Potter	Harry Potter, literature, bar graph	
Teaching Children Mathematics	2004 February	Teaching Problem Solving in Mathematics	problem solving	
Teaching Children Mathematics	2004 February	Show Me the Evidence: Mathematics Professional Development for Elementary Teachers	pre-service, research	
Teaching Children Mathematics	2004 March	Picnicking with Fractions	fractions, food	
Teaching Children Mathematics	2004 April	The Mathematical Candy Store: Weight Matters	weight, measurement, candy	
Teaching Children Mathematics	2004 April	Responses to the Shape Search Problem	shapes, geoboard	
Teaching Children Mathematics	2004 May	Triangular Bicycle Flags	triangles, bicycles, lattice polygons	
Teaching Children Mathematics	2004 May	Problem-Solving Strategies of First Graders	problem solving	
Teaching Children Mathematics	2004 August	Adapting Manipulatives to Foster the Thinking of Young Children	manipulatives, pattern blocks	
Teaching Children Mathematics	2004 August	Lewis and Clark	history	
Teaching Children Mathematics	2004 August	Egg Dilemma	eggs, food, problem solving	
Teaching Children Mathematics	2004 December/ 2005 January	Making Mathematical Connections by Constructing Tetrahedra	circle, functions, tetrahedra	
				K - 6

Topic	Book	Activity	Key Words	Grade
Teaching Children Mathematics	2005 December/ 2006 January	Thinking Algebraically Across the elementary School Curriculum		K - 6
Teaching Children Mathematics	2005 December/ 2006 January	Putting Fun into Functions		K - 6
Teaching Children Mathematics	2005 December/ 2006 January	From Simple Questions to Powerful Connections: A Two-Year Conversation about Negative Numbers		K - 6
				K-6
Teaching Children Mathematics	2006 February	How Many Blades of Grass Are on a Football Field?		K-6
Teaching Children Mathematics	2006 February	How Many Days 'til My Birthday? Helping Kindergarten Students Understand Calenfar Connections and Concepts		K-6
Teaching Children Mathematics	2006 February	The Whimsical Path to Math: Implementing the Nagivations Series		K-6
Teaching Children Mathematics	2006 March	A Mathematical Exploration of Grandpa's Quilt		
Teaching Children Mathematics	2006 March	On Becoming a Better Problem-Solving Teacher		
Teaching Children Mathematics	2006 March	Posing Problems from Children's Literature		
Teaching Children Mathematics	2006 March	The Teaching and Learning of Fractions: A Japanese Perspective		
Teaching Children Mathematics	2006 April	Riding the Mathematics Maerry-Go-Round to Foster Conceptual understanding of Angle		
Teaching Children Mathematics	2006 April	Creating, Naming, and Justifying Fractions		
Teaching Children Mathematics	2006 May	Learning Math in Dynamic Computer Environments		
Teaching Children Mathematics	2006 May	Fourth-Grade Results from Natinoal Assessment: Encouraging News		
Teaching Children Mathematics	2006 May	Preparing Preservice elementary School Teachers to Teach Problem Solving		
Teaching Children Mathematics	2006 May	Got Tools? Exploring Children's Use of Math Tools during Problem Solving		K-6
Teaching Children Mathematics	2006 May	Problems to Deepen Teachers' Math Understanding: Examples in Multiplication		K-6
Teaching Children Mathematics	2006 August	Differentiating the Curriculum for Elementary Gifted mathematics Students	Special needs, gifted	K-6
Teaching Children Mathematics	2006 August	Problem Posing in the Elementary Classroom	Problem Posing	K-6
Teaching Children Mathematics	2006 August	Why Children Have Difficulties Mastering the Basic Number Combinations and How to Help Them	Computation, Arithmetic, Number Sense, Operation Sense,	pK-K
Teaching Children Mathematics	2006 August	Math by the Month: Meet me at the Fair	Problem solving	
Teaching Children Mathematics	2006 August	Problem Solvers: Terrific Trapezoids	Geometry, Problem Solving, Data Analysis, Data Collection	
Teaching Children Mathematics	2006 August	Solutions to What's the Overlap? Problem	Problem solving, Polygons	
Teaching Children Mathematics	2006 August	A Lesson on Logical Necessity	Reasoning, Logic, Pedagogy	
Teaching Children Mathematics	2006 September	Fostering Rational Thinking while Negotiating the Meaning of the Equals Sign	Equations, Equals sign, algebraic thinking, number senteces, evaluate	
Teaching Children Mathematics	2006 September	Mighty Mathematicians: Using Problem Posing and Problem Solving to Develop Math Power		
Teaching Children Mathematics	2006 September	Students THINK: A Framework for Improving Problem Solving		
Teaching Children Mathematics	2006 September			
Teaching Children Mathematics	2006 September	Developing Number Sense through Real-Life Situations in School		
Teaching Children Mathematics	2006 October	Fostering Communication About Measuring Area in a Transitional Language Class		
Teaching Children Mathematics	2006 October	Understanding the Development o fStudents' Thinking about Length		

Topic	Book	Activity	Key Words	Grade
Teaching Children Mathematics	2006 October	Etty Wand and the Have a Heart Problem		
Teaching Children Mathematics	2006 October	Measurement of Length: How can We Teach It Better?		
Teaching Children Mathematics	2006 October	This About Covers It! Strategies for Finding Area		
Teaching Children Mathematics	2006 November	Making Connections through Math-Related Book Pairs	Fractions, Literature, Comparisons, Special Needs (ELL)	
Teaching Children Mathematics	2006 November	Through the Eyes of Laura Ingalls Wilder	Money, Fair Sharing, circles, geometric, lines, plane, literature, measurement, history, quantities	
Teaching Children Mathematics	2006 November	Problem Solvers Problem: Shoes for a Pen Pal	Problem Solving Statistics/Data Analysis Data Collection	
Teaching Children Mathematics	2006 November	Problem Solvers Solution: Solutions to the Talking Turkey Problem	Problem Solving Statistics/Data Analysis Data Collection	
Teaching Children Mathematics	2006 November	Early Childhood Corner: Mathematical Concepts Come Alive in Pre-K and Kindergarten Classrooms	Early Childhood, patterns, Unifix cubes	
Teaching Children Mathematics	2006 December / 2006 January	The Road to TCM: Celebrating 100 Years of the Mathematics Teacher		
Teaching Children Mathematics	2006 December / 2006 January	Still Hazy After All These Years? A Reaction to "Algebra in the Elementary Schools"		
Teaching Children Mathematics	2006 December / 2006 January	The Answer is 20 Cookies. What is the Question?		
Teaching Children Mathematics	2006 December / 2006 January	Algebra in the Elementary School		
Teaching Children Mathematics	2007 February	Measuring the Growth on a Museum Field Trip: Dinosaur Bones and Tree Cross Sections		
Teaching Children Mathematics	2007 February	Problem Solving in a Structured Math Program		
Teaching Children Mathematics	2007 February	Fostering Mathematical Thinking and Problem Solving; The Teacher's Role		
Teaching Children Mathematics	2007 February	What's on Your Nations' Report Card?		
Teaching Children Mathematics	2007 February	Tips for Including Elementary Students with Disabiliteis inMath Classes		
Teaching Children Mathematics	2007 March	Counting Collections		
Teaching Children Mathematics	2007 March	No Tears Here! Third Grade Problem Solvers		
Teaching Children Mathematics	2007 March	Pythagoras, Measurement, and the Geoboard		
Teaching Children Mathematics	2007 March	Math By the Month: Supermarket Math		
Teaching Children Mathematics	2007 April	Family Math Nights: Collaborative Celebrations of Math Learning		
Teaching Children Mathematics	2007 April	Math By the Month: How Does Your Garden Grow?		
Teaching Children Mathematics	2007 April	The Empty Number line: A Useful Tool or Just Another Procedure?		
Teaching Children Mathematics	2007 April	The Math Survey: A Tool for Assessing Attitudes and Dispositions		
Teaching Children Mathematics	2007 April	What is the Value of @*#? Deepening Teachers' Understanding of Place Value		
Teaching Children Mathematics	2007 May	Measure Up For Understanding		
Teaching Children Mathematics	2007 May	Poising Problems That Matter: Investigatinge School Overcrowding		
Teaching Children Mathematics	2007 May	Cdeveloping Students' Math Reasoning through Games		
Teaching Children Mathematics	2007 May	A Virtual Spin on the Teaching of Probability		
Teaching Children Mathematics	2007 May	Math By the Month: How Many Ways?		

Topic	Book	Activity	Key Words	Grade
Teaching Children Mathematics	2007 August	Grae-level Learning Expectations: A New Challenge for Elementary Math Teachers		
Teaching Children Mathematics	2007 August	Ninety Percent of the Game is Half Mental		
Teaching Children Mathematics	2007 August	The Power of String: Building a Conceptual Foundation for Measuring Rate		
Teaching Children Mathematics	2007 August	Interpreting the Standard Division Algorithm in a "Candy Factory" Context		
Teaching Children Mathematics	2007 August	Rulers of Different Colors: Inquiry into Measurement		
Teaching Children Mathematics	2007 August	Context in Math Learning: Problems and Possibilities		
Teaching Children Mathematics	2007 August	Seeing Students' Knowledge of Fractions: Candace's Inlusive Classroom		
Teaching Children Mathematics	2007 August	Math By the Month: A Healthy Start		
Teaching Children Mathematics	2007 September	Talking Mathematics		
Teaching Children Mathematics	2007 September	An Arts-Based Approach to Teaching Fractions		
Teaching Children Mathematics	2007 September	Engaging Preservice Teachers and Elementary-Age Children in Transformational Geometry: Tessellating T-shirts		
Teaching Children Mathematics	2007 September	To Share or Nto to Share - *How* Is the Question!		
Teaching Children Mathematics	2007 September	Math By the Month: Inventors and Their Inventions		
Teaching Children Mathematics	2007 October	Using Research to Develop Computational Fluency in Young Mathematicians		
Teaching Children Mathematics	2007 October	Developing Understanding of Fractions through Pattern Blocks and Fair Trade		
Teaching Children Mathematics	2007 October	One Elementary School's Journey from Research to Practice		
Teaching Children Mathematics	2007 October	Making "Cute" Count		
Teaching Children Mathematics	2007 October	Tying It All Together: Classroom Practices That Promote Math Profiiency for All Students		
Teaching Children Mathematics	2007 October	Thinking about Learning Trajectories in Preschool		
Teaching Children Mathematics	2007 October	Math By the Month: Feed Your Mind!@		
Teaching Children Mathematics	2007 November	The Day Math and Reading Got Hitched		
Teaching Children Mathematics	2007 November	Storytelling + Origami = Storigami Math		
Teaching Children Mathematics	2007 November	Journeying into Math through Storybooks: A Kindergarten Story		
Teaching Children Mathematics	2007 November	Gaining Insights into Children's Geometric Knowledge		
Teaching Children Mathematics	2007 November	Math By the Month: Read a Story, Discover the Math		
Teaching Children Mathematics	2007 December / 2008 January	Assessing Students' Understanding through Conversations		
Teaching Children Mathematics	2007 December / 2008 January	Math and the Learning Cycle: How the Brian Works As It Learns Math		K-12
Teaching Children Mathematics	2007 December / 2008 January	Assessing Students' Levels of Understanding Multiplication through Problem Writing		K-12
Teaching Children Mathematics	2007 December / 2008 January	Using Item Analyses and Instructional Conversations to Improve Math Achievement		K-12
Teaching Children Mathematics	2007 December / 2008 January	What's Your Angle on Angles?		K-12
Teaching Children Mathematics	2007 December / 2008 January	Preparing for Problem Solving		K-12
Teaching Children Mathematics	2007 December / 2008 January	Curriculum Focal Points: What's Your Focus and Why?		K-12

Topic	Book	Activity	Key Words	Grade
Teaching Children Mathematics	2007 December / 2008 January	Math By the Month: Geology, Geography, and Math		K-12
Teaching Children Mathematics	2007 December / 2008 January	Watch What You Say		