

The Microscope Book

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Using the microscope in Textiles Technology

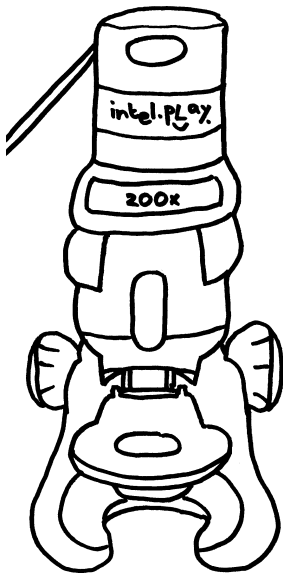
The microscope can be used in many ways to learn about textiles technology.

For example:

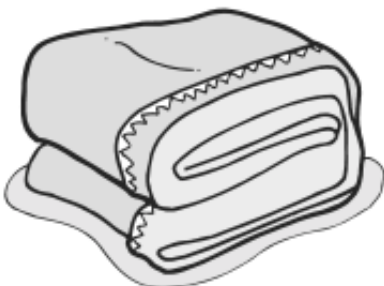
- explore how everyday textiles are made
- look in detail at their construction
- investigate the fibres that make fabrics
- use magnified objects for design ideas.

To do

Place a section of the item on the sample platform of the microscope and see how it is made. Zoom in to higher magnification to look at the structure of the yarn and fibres.



Place a section of the item on the sample platform.



Blankets can be woven or knitted

What do feathers look like?



Look at everyday textile objects under the microscope to see how they are made.



Socks are knitted but other garments can be knitted, woven or non-woven.



T shirts are knitted.



This garment is made from different sections which could be knitted, woven, or non-woven.



This shopping bag could be woven.

Using the microscope

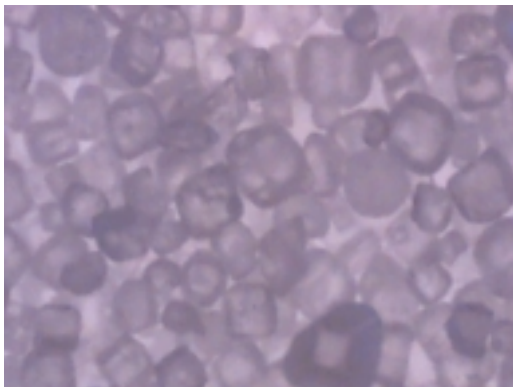
This page shows images of different salts examined under the microscope at different magnifications.

Salt



Table salt Magnified 60 x

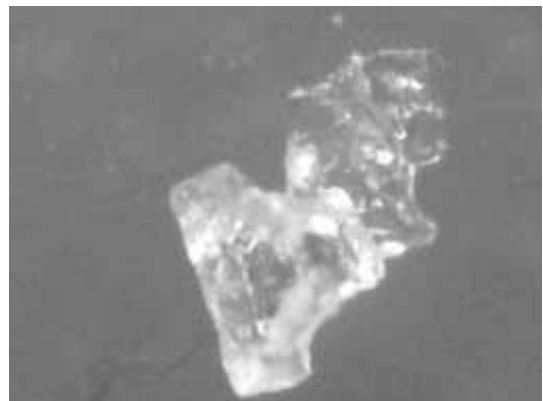
These pictures of table salt show its smooth appearance and regular shape.



This picture is of the table salt lit from below, and magnified 60x. It shows the regularity of the salt crystals clearly.

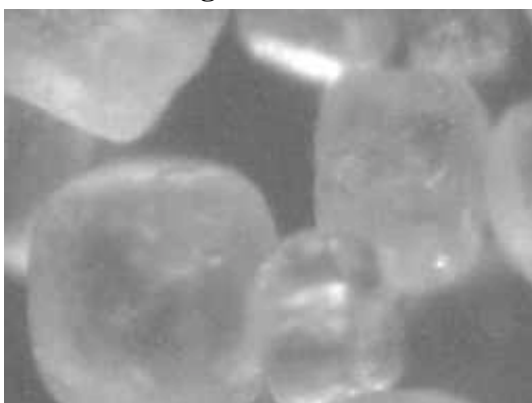
Organic rock salt Magnified 200 x

These images of various sea salts magnified 200x show the individual salt crystals - they are much larger than those of the table salt.



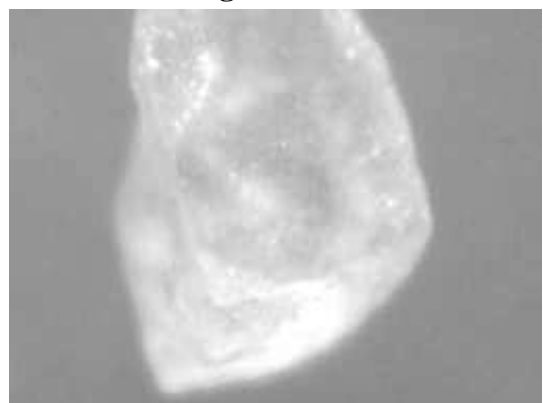
The image is of organic sea salt. The structure is irregular, and shinier than the table salt. It looks like a shard of ice.

Table salt Magnified 200 x



The right picture is lit from above and, at the higher magnification, shows the surface of the crystal more clearly – it is smooth and shiny.

Shop-bought sea salt Magnified 200 x



This picture shows shop-bought sea salt. It has the same sheen as the collected rock salt, but is more regular in shape.