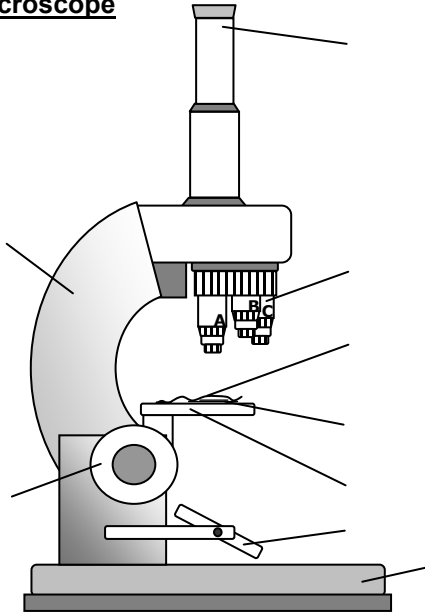
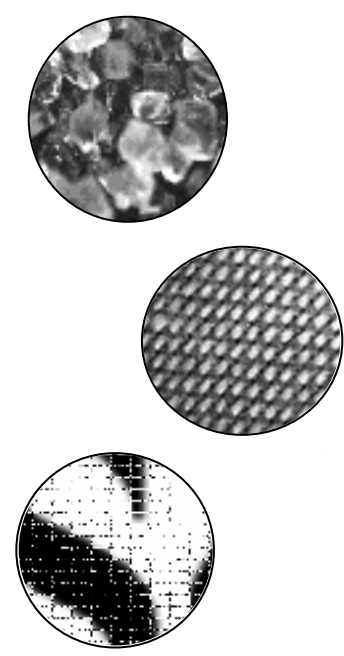


A class was using a microscope for the first time. They had to be very careful because microscopes are fragile and cost a lot of money. The pictures show salt, cloth and newsprint as they appeared *under the microscope*.

<p><u>Using a microscope</u></p> 	<p><u>Images</u></p> 	<p><u>Fact File</u></p> <p>The microscope is fragile. Carry it by the base and handle.</p> <p>The longer objective lenses have larger magnifications.</p> <p>A lamp can be used to provide light to the slide via the mirror.</p> <p>The objective lenses have magnification values such as '4x', meaning 'four times bigger'. View using the shortest objective lens first as this has the lowest magnification.</p>
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Tasks

1. Label the microscope using the words below.

<i>Slide</i>	<i>Stage</i>	<i>Clip</i>	<i>Mirror</i>	<i>Base</i>
<i>Eyepiece lens</i>	<i>Objective lens</i>	<i>Focusing knob</i>		<i>Handle</i>

2. Which two parts of the microscope should you hold when carrying it?
3. When looking at a new slide, which objective lens is it better to use first (A, B or C)? Label the three objective lenses 4x, 10x and 40x.
4. The mirror provides light to the slide. The light passes up through a hole in the stage and passes through the slide. Why do you think it is necessary to prepare very thin samples of materials for viewing?
5. The three pictures above show the view under the microscope of cloth, newspaper print and salt. Label each picture.
6. Choose three objects and draw pictures showing how you think they would appear under a microscope.

Objectives

Use a microscope safely and effectively.

Checklist for this activity

- | | |
|---|---|
| <input type="checkbox"/> Work on the sheet | <input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 |
| <input type="checkbox"/> Write full answers | <input type="checkbox"/> Copy the <i>Fact File</i> |
| <input type="checkbox"/> Copy the diagram | <input type="checkbox"/> Add your own research |