

## Igneous rocks

Rock sample number:	Location:
Observation	Comment
<p><u>Texture</u></p> <ul style="list-style-type: none"> <li>• Is it crystalline or glassy?</li> <li>• Does it have coarse, medium or fine crystals?</li> <li>• Are the crystals approximately the same size (so it is equicrystalline) or of different sizes (so it has a porphyritic texture)?</li> </ul>	
<p><u>Colour</u></p> <ul style="list-style-type: none"> <li>• Is it a pale / light colour (and so probably a silicic igneous rock)?</li> <li>• Is it a dark colour (and so probably a mafic igneous rock)?</li> </ul>	
<p><u>Minerals</u> (Give reasons for your identification)</p> <ul style="list-style-type: none"> <li>• Quartz?</li> <li>• Feldspar?</li> <li>• Mica?</li> <li>• Olivine?</li> <li>• Feldspar?</li> <li>• Augite (pyroxene)?</li> <li>• Hornblende (amphibole)?</li> <li>• Other minerals?</li> </ul> <p>(Use the mineral sheets to help you identify the minerals. Use properties like hardness, colour, crystal shape, twinning and cleavage).</p>	
<p><u>Other characteristics</u></p> <ul style="list-style-type: none"> <li>• Joints?</li> <li>• Vesicles?</li> <li>• Amygdales?</li> <li>• Xenoliths?</li> </ul>	
<p><u>Name of rock</u></p> <ul style="list-style-type: none"> <li>• Is it granite, gabbro, basalt or dolerite?</li> </ul>	
<p><u>Cooling history</u></p> <ul style="list-style-type: none"> <li>• Did it cool quickly (so it has fine crystals)?</li> <li>• Did it cool slowly (so it has coarse crystals)?</li> <li>• Did it cool fairly slowly (so it has medium crystals)?</li> <li>• Did the crystals form at the same time / at the same rate (so crystals are of the same size)?</li> <li>• Did the crystals form in two phases of cooling at different rates (so it has larger phenocrysts)?</li> </ul>	
<p><u>Formation</u></p> <ul style="list-style-type: none"> <li>• Formed in a sill or dyke?</li> <li>• Formed In a lava flow?</li> <li>• Formed in a pluton?</li> </ul>	