

**SEDIMENTARY ROCKS (CLASTIC)**

<b>SPECIMEN</b>	<b>1</b>	<b>2</b>	<b>3</b>
<u>Texture</u> <ul style="list-style-type: none"> <li>• Does it have coarse, medium or fine grains?</li> <li>• Are the grains approximately the same size (well-sorted) or of very different sizes (poorly-sorted)?</li> <li>• Are the grains well-rounded, rounded, sub-rounded/subangular, angular, very angular?</li> <li>• Are the grains spherical or elongate?</li> <li>• Is the sediment texturally mature or immature?</li> </ul>			
<u>Colour</u> <ul style="list-style-type: none"> <li>• Does it have a pale / light colour or a black/dark colour or a red/brown colour or a green colour?</li> <li>• Reason for this colour?</li> </ul>			
<u>Grains, matrix &amp; cement</u> <ul style="list-style-type: none"> <li>• Does it contain rock fragments (lithic grains)?</li> <li>• Does it contain quartz* grains?</li> <li>• Does it contain feldspar* grains?</li> <li>• Does it have a matrix of clay minerals &amp; silt-grade quartz?</li> <li>• Does it show quartz* cement?</li> <li>• Does it show calcite* cement?</li> </ul> <p>(*Look at the mineral sheets to help you identify minerals. Use properties like hardness, colour, twinning, cleavage, reaction with dilute HCl acid).</p> <ul style="list-style-type: none"> <li>• Is the sediment mineralogically mature or immature?</li> </ul>			
<u>Sedimentary structures</u> <ul style="list-style-type: none"> <li>• Cross bedding?</li> <li>• Ripple marks?</li> <li>• Sole structures?</li> <li>• Bedding?</li> <li>• Graded bedding?</li> <li>• Laminations?</li> <li>• Other structure(s)?</li> </ul>			
<u>Fossils</u> <ul style="list-style-type: none"> <li>• Does it show trace fossils* (tracks, trails, or burrows)?</li> <li>• Does it show fossils* (e.g. bivalves, plants, brachiopods, graptolites)?</li> </ul> <p>(*Name the fossils you see)</p>			
<u>Name of rock</u> <ul style="list-style-type: none"> <li>• Is it sandstone, conglomerate, breccia, shale or siltstone?</li> </ul>			
<u>History</u> <ul style="list-style-type: none"> <li>• Was the sediment transported over a long distance or frequently reworked (so it shows textural maturity)?</li> <li>• Was it deposited in a low energy or a high energy environment?</li> </ul> <p>(Give a reason for your answer).</p> <ul style="list-style-type: none"> <li>• Did it form in a marine or terrestrial environment?</li> </ul> <p>(Use the fossil evidence in the rock)</p>			