

SEDIMENTARY ROCKS (LIMESTONES)

SPECIMEN	1	2	3
<p><u>Colour</u></p> <ul style="list-style-type: none"> Does the rock have a grey colour or a creamy brown colour or a white colour? Does the colour vary? Reason(s) for colour/colour change? 			
<p><u>Mineralogy</u></p> <ul style="list-style-type: none"> Does the rock fizz strongly or fizz weakly with dilute HCl acid? Reason for this reaction? 			
<p><u>Limestone Composition</u></p> <ul style="list-style-type: none"> Does it have a matrix (usually micrite = fine-grained calcite crystals)? Does it have a cement (usually sparite = clear, glassy-looking calcite crystals)? Does it contain skeletal grains (bioclasts)? Does it contain non-skeletal grains* (e.g. ooids, peloids, intraclasts)? (*Name the grains you see). Do the grains give a clue about conditions* at the time of formation? (*Describe the energy conditions or palaeoenvironments you have identified) 			
<p><u>Depositional Texture</u></p> <ul style="list-style-type: none"> Is it crystalline (i.e. Its depositional texture cannot be recognised)? Is it a boundstone (i.e. The original components are bound together)? Is it a grainstone (i.e. It contains no mud (clay & fine silt-size carbonate) & is grain supported)? Is it a packstone (i.e. It contains mud, but is grain supported)? Is it a wackestone (i.e. It contains mud, more than 10% grains & is mud supported)? Is it a mudstone (i.e. It contains mud, less than 10% grains & is mud supported)? Did the limestone form in low energy conditions or high energy conditions? 			
<p><u>Sedimentary structures</u></p> <ul style="list-style-type: none"> Cross bedding? Ripple marks? Bedding? Graded bedding? Laminations? Other structure(s)? 			
<p><u>Fossils</u></p> <ul style="list-style-type: none"> Does it show fossils* (e.g. bivalves, brachiopods, cephalopods, corals, crinoids, echinoids)? (*Name the fossils you see) Are the fossils well-preserved? Are the fossils in growth positions? What type of environment did the fossils form in? 			
<p><u>Name of rock</u></p> <ul style="list-style-type: none"> Is it chalk, micritic limestone (micrite), oolitic limestone, bioclastic (or fossiliferous) limestone, coral limestone or algal reef limestone? 			