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## Sample Assignment: Unit 11 Materials for a Purpose

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### ASSIGNMENT BRIEF

<b>Unit Name:</b> Materials for a Purpose	<b>Unit Number:</b> 11
<b>Assignment Title:</b> What is Structure?	<b>Assignment Number:</b> 11.1
<b>Date Set:</b>	<b>Due Date:</b>
<b>Assessment Objective(s):</b> AO1a & b	
<b>Brief:</b> <p>The properties of all materials used for industrial and commercial use are dependent on their structures. A material selected for a particular use must have the required properties in order for it to be suitable for its specified use.</p> <p>A company manufacturing cars needs details of the structure and properties of ceramics, composites, polymers and metals so that they can chose a suitable material for a new design of car body and interior.</p>	
<b>Assignment:</b> <b>Task 1</b> <p>You have been asked by the company to prepare a presentation or poster with an accompanying leaflet on the structures of:</p> <ul style="list-style-type: none"><li>• Polymers</li><li>• Metals</li><li>• Ceramics or glasses</li><li>• Composite materials.</li></ul> <p>The work needs to be suitable to use for discussion by visiting modern apprentices and sixth form students.</p>	
<b>Task 2</b> <p>You have also been asked to devise an accompanying leaflet/worksheet which demonstrates your understanding of the topic.</p> <p>Try and make your work attractive to use and easy to understand.</p> <p><b>Max marks possible for this task: 10</b></p>	

**Task 3 (MB3)**

If you are aiming towards MB3 you are advised to add a worksheet that gives appropriate questions with a set of answers on the structures of the materials discussed. The questions should be suitable to test visitor/student knowledge on this topic and give opportunity to give suggestions of materials which can be used for new car designs. The answers should involve relating the structure to the physical properties.