

<b>Term</b>	<b>Year 12</b>	<b>Year 13</b>
<b>Autumn 1</b>	Materials and their applications Classification of materials Methods for investigating and testing materials	Coursework which includes: Iterative design process Design styles and movements Social, moral and ethical issues
<b>Autumn 2</b>	Performance characteristics of materials Elastomers Biodegradable polymers	The use of a design process Prototype development Critical analysis and evaluation
<b>Spring 1</b>	Composites Smart materials Modern materials	Selecting appropriate tools, equipment and processes
<b>Spring 2</b>	Enhancement of materials Forming, redistribution and addition processes The use of adhesives and fixings	Accuracy in design and manufacture Quality assurance Quality control
<b>Summer 1</b>	Jigs and fixtures The use of finishes Scales of production	Revision and exams
<b>Summer 2</b>	Computer aided design (CAD) Computer aided manufacture (CAM) Health and safety	