

## Y10 Design & Technology Curriculum Summary

Cycle 1	Cycle 2	Cycle 3
<p><u>Wood and Metal Focus</u></p> <ul style="list-style-type: none"> <li>• Wood origin, types and conversion</li> <li>• Man-made boards and their applications</li> <li>• Wood stock forms, cutting and joining techniques</li> <li>• OCC puzzle</li> <li>• Isometric Drawing</li> <li>• Metal production</li> <li>• Metal stock forms, shaping and joining</li> <li>• Aluminium photo-frame, including jigs and production aids</li> </ul>	<p><u>Plastics, CAD/CAM and Sustainability</u></p> <ul style="list-style-type: none"> <li>• Plastics types</li> <li>• Thermoforming</li> <li>• Test-tube vase – 2D CAD</li> <li>• 3D CAD for development drawings – bud vase</li> <li>• Precious plastics and the role of the 6R's</li> <li>• Modern CAM including 3D Printing and laser cutting</li> </ul>	<p><u>Designers and Design Businesses</u></p> <ul style="list-style-type: none"> <li>• The work of Norman Foster and Philippe Starck</li> <li>• The products of Dyson and Apple</li> <li>• Scales and methods of production</li> <li>• Quality control and assurance</li> <li>• Introduction to the GCSE Major Project – June 2024</li> </ul>
Assessment and Exams		
<ol style="list-style-type: none"> <li>1. Metal theory test, with extended written question</li> <li>2. Wood theory test, with extended written question</li> </ol>	<ol style="list-style-type: none"> <li>1. Plastics theory test, with extended written question</li> <li>2. Composites and their applications</li> </ol>	<ol style="list-style-type: none"> <li>1. Man-made board production and applications</li> <li>2. Smart and modern materials</li> </ol>