

## Key Stage 4

Subject: Design Technology (AQA)

### Intent

To inspire a love of Design Technology, promoting the enjoyment of the subject. Preparing students to become critical thinkers, creative designers and consumers of the future. To excite and innovate pupils to develop ideas independently and apply their learning to different situations. To be able to consider the needs, wants and values of others. To develop practical skills in order to design and make high quality products for a wide range of users.

### Programme of study and assessment

	Autumn Term	Spring Term	Summer Term
<b>Year 10</b>	<p>Complete a range of focused practical tasks in different materials such as textiles, timber, polymers and paper and boards using both hand tools and machinery as well as CAD/CAM.</p> <p>Through this they build their technological capabilities and theoretical knowledge.</p> <ul style="list-style-type: none"><li>• Tie dye project</li><li>• Lamp project – practise NEA</li></ul> <p><b>Mechanisms</b></p> <ul style="list-style-type: none"><li>• Research client based</li><li>• Design brief and specification</li><li>• Experiment with design strategies</li><li>• Electronics</li></ul>	<ul style="list-style-type: none"><li>• 3D Design pencil toppers</li><li>• Evaluation</li><li>• Accuracy-jigs, patterns and templates</li><li>• Mechanisms &amp; movements</li><li>• CAD/CAM</li><li>• Using tools and processes</li><li>• Modelling &amp; prototypes</li><li>• Electronics</li><li>• Materials and properties</li><li>• Scales of production</li></ul>	<ul style="list-style-type: none"><li>• Start NEA- Research to continue in year 11</li><li>• Revision of topics for exam</li></ul>

	<ul style="list-style-type: none"> <li>• Tools and processes</li> <li>• Evaluation</li> <li>• Accuracy-jigs, patterns and templates</li> <li>• Mechanisms &amp; movements</li> <li>• CAD/CAM</li> </ul>		
<b>Assessment</b>	<p>End of topic tests on materials e.g., paper, wood, polymers &amp; boards.</p> <p>NEA</p>	<p>Technical knowledge tests- how to use different mechanisms, equipment and produce prototypes and modelling.</p>	<p>End of year 10 examination (2hrs) covering subject knowledge on <b>core technical principles, specialist technical principles</b> and <b>designing and making</b>.</p>
<b>Year 11</b>	<p>NEA continued</p> <ul style="list-style-type: none"> <li>• Investigate</li> <li>• Design brief and specification</li> <li>• Generating ideas developing ideas modelling</li> <li>• Realising ideas</li> <li>• Prototype</li> <li>• Make</li> <li>• Evaluate and analyse</li> <li>• Core technical knowledge</li> <li>• Specialist technical knowledge</li> <li>• Designing</li> </ul>	<p>NEA continued</p> <ul style="list-style-type: none"> <li>• Make</li> <li>• Evaluate and analyse</li> <li>• Making</li> </ul>	<ul style="list-style-type: none"> <li>• Recapping topics and revision</li> <li>• Exam preparation</li> </ul>
<b>Assessment</b>	<p>Topic tests using revision list</p> <p>NEA</p> <p>Mock examination</p>	<p>Topic tests using revision list</p> <p>NEA</p> <p>Mock examination</p>	<p>Final examination</p>