



## CURRICULUM OVERVIEW: DESIGN AND TECHNOLOGY YEAR 10

Year	Term	Unit/s of Work	Assessment	Skills to be covered
10	1	<p><b>Speaker Project</b> <i>Modelling the NEA project</i></p> <ul style="list-style-type: none"><li>• Electronic theory</li><li>• Common electronic components</li><li>• Design and development of a design solution</li><li>• CAD/CAM</li><li>• Assembling electronic circuits</li></ul>	<ul style="list-style-type: none"><li>• Identifying and investigating design possibilities<ul style="list-style-type: none"><li>○ Task Analysis</li><li>○ Existing Products</li></ul></li><li>• Producing a design brief and specification<ul style="list-style-type: none"><li>○ Design Brief</li><li>○ Specification</li></ul></li><li>• Generating design ideas<ul style="list-style-type: none"><li>○ Design Ideas</li><li>○ Further Research</li></ul></li><li>• Developing design ideas<ul style="list-style-type: none"><li>○ Development 1</li><li>○ Modelling</li><li>○ Final Design</li><li>○ Manufacturing Specification</li></ul></li><li>• Realising design ideas<ul style="list-style-type: none"><li>○ Manufacturing of final prototype</li><li>○ Manufacturing Log</li><li>○ Final Photos</li></ul></li><li>• Analysing &amp; evaluating<ul style="list-style-type: none"><li>○ Evaluation Against Specification</li><li>○ Improvements</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Key analytical skills</li><li>• Primary and secondary research</li><li>• Graphical techniques and processes through design and development sheets</li><li>• Modelling techniques</li><li>• Manufacturing Techniques (selected by students depending upon the design chosen)</li><li>• Evaluation skills</li></ul>

	2	<p><b>Sporting Medal</b> <i>Modelling the NEA project</i></p> <ul style="list-style-type: none"> <li>• Textile materials</li> <li>• Working with CAD/CAM and textiles</li> <li>• Working for a client</li> <li>• Casting metals</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying and investigating design possibilities <ul style="list-style-type: none"> <li>○ Task Analysis</li> <li>○ Existing Products</li> </ul> </li> <li>• Producing a design brief and specification <ul style="list-style-type: none"> <li>○ Design Brief</li> <li>○ Specification</li> </ul> </li> <li>• Generating design ideas <ul style="list-style-type: none"> <li>○ Design Ideas</li> </ul> </li> <li>• Developing design ideas <ul style="list-style-type: none"> <li>○ Development 1</li> <li>○ Final Design</li> </ul> </li> <li>• Realising design ideas <ul style="list-style-type: none"> <li>○ Manufacturing of final prototype</li> <li>○ Final Photos</li> </ul> </li> <li>• Analysing &amp; evaluating <ul style="list-style-type: none"> <li>○ Evaluation Against Specification</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Cutting and shaping fabrics</li> <li>• Joining fabrics</li> <li>• Decorating and manipulating fabrics</li> <li>• Melting and casting pewter</li> <li>• Finishing metals: filing, abrasive papers and polishing</li> </ul>
	3	<p><b>NEA (Non-Examined Assessment)</b> Exam theme released by AQA on 1<sup>st</sup> June each.</p> <ul style="list-style-type: none"> <li>• Identifying and investigating design possibilities (10 Marks)</li> <li>• Producing a design brief and specification (10 Marks)</li> <li>• Generating design ideas (20 Marks)</li> </ul>	<ul style="list-style-type: none"> <li>• Identifying and investigating design possibilities <ul style="list-style-type: none"> <li>○ Task Analysis</li> <li>○ Consumer Research</li> <li>○ Existing Products</li> <li>○ Social &amp; Economic Analysis of Theme</li> </ul> </li> <li>• Producing a design brief and specification <ul style="list-style-type: none"> <li>○ Design Brief</li> <li>○ Specification</li> </ul> </li> <li>• Generating design ideas <ul style="list-style-type: none"> <li>○ Design Ideas</li> <li>○ Further Research</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Mind Mapping</li> <li>• Primary and Secondary Research</li> <li>• Analysis of Project</li> <li>• Designing potential design solutions.</li> </ul>