

## Design &amp; Technology – Year 8

Knowledge and Skills – Students will be taught to...	Reading, Oracy, Literacy and Numeracy	Formative Assessment	Summative Assessment	Link to GCSE Content
<ul style="list-style-type: none"> <li>Respond to a context analysing the important factors.</li> <li>Write a detailed Design Brief.</li> <li>Undertake appropriate research.</li> <li>Produce creative ideas that solve their brief.</li> <li>Analyse ideas to explain their strengths and weaknesses.</li> <li>Develop their chosen idea using a range of different techniques.</li> <li>Use 2D design effectively to develop their idea.</li> <li>Consider appropriate materials and processes to be used for the manufacture of their product</li> <li>Develop their use of tools and processes in manufacture.</li> <li>Demonstrate safe working practices.</li> <li>Evaluate their product and suggest possible improvements.</li> </ul>	<p><b>Reading</b></p> <ul style="list-style-type: none"> <li>Written context.</li> <li>Reading of gathered research prior to analysis.</li> </ul> <p><b>Numeracy</b></p> <ul style="list-style-type: none"> <li>Measuring techniques to ensure accuracy.</li> <li>Weighing appropriate ingredients.</li> <li>Consider dimensions for the manufacture of their product.</li> <li>Dimension CAD files.</li> </ul> <p><b>Oracy</b></p> <ul style="list-style-type: none"> <li>Individual speaking:</li> <li>Discussion of design work through peer feedback and through the evaluation of a product.</li> </ul>	<p>Questioning in lessons</p> <p>Whole class feedback</p> <p>Individual feedback in lessons</p> <p>Marking areas of focus and identifying areas for improvement.</p> <p>Peer and self- assessment of written work</p>	<p>3 written exams throughout the year focussing on:</p> <ul style="list-style-type: none"> <li>Health &amp; Safety</li> <li>Maths skills</li> <li>Literacy skills</li> <li>Designing</li> </ul> <p>3 marked coursework tasks focussing on:</p> <ul style="list-style-type: none"> <li>Analysis</li> <li>Evaluation</li> <li>Other higher level thinking skills</li> </ul>	<p>Assessment reflects the 50/50 weighting between coursework and exam.</p> <p>Developing ability to respond to exam questions building in complexity.</p> <p>Developing an iterative design process.</p> <p>Experiencing a wide range of material areas that can be focussed upon for GCSE courses.</p> <p>Developing the use of CAD/CAM required in GCSE NEA's</p> <p>Developing skills using hand tools.</p> <p>Demonstrate an understanding of Health and Safety working practice in different environments in D&amp;T.</p> <p>Considering real world problems to solve and the ability to design to an overall theme.</p>