

<b>Product Design</b>	
<b>Teacher in charge of subject</b>	<b>Mr Potts</b>
<b>Type of qualification</b>	<b>A level</b>
<b>Exam board and subject code</b>	<b>Edexcel 9DT0</b>
<b>Entry requirements</b>	
<b>Specific subject requirement</b>	<b>Grade 4 in GCSE Resistant Materials or Graphic Products or Level 2 Pass in Engineering</b>
<b>Course details</b>	
<p>During year 12 year, through project work we will focus on developing your designing and making skills to a higher level, including the use of CAD/CAM as well as using more traditional graphics and workshop equipment. You will then start a challenging design and make project which will be completed in year 13 for the NEA. In addition to the practical coursework, Principles of Design and Technology will be covered. These principles are covered in the following topics:</p> <p>Topic 1: Materials  Topic 2: Performance characteristics of materials  Topic 3: Processes and techniques  Topic 4: Digital technologies  Topic 5: Factors influencing the development of products  Topic 6: Effects of technological developments  Topic 7: Potential hazards and risk assessment  Topic 8: Features of manufacturing industries  Topic 9: Designing for maintenance and the cleaner environment  Topic 10: Current legislation  Topic 11: Information handling, modelling and forward planning  Topic 12: Further processes and techniques.</p> <p>Through your choice of major project, it is possible to specialise in a material area such as graphics or resistant materials.</p>	
<b>Assessment</b>	
<p><b>Written Exam</b> 50% of the qualification  Taken in Year 13  Principles of Design and Technology</p> <p><b>Course work</b> 50% of the qualification  Completed in Year 13  Independent Design and Make project  This project is instigated by a client, negotiated with the student leading to a working prototype.</p>	
<b>Career options</b>	
<p>Students have gone on to study degrees in Civil Engineering, Mechanical Engineering, Motor Vehicle Design, Product Design, CAD designer, Architecture. Over the years some students have chosen to follow industry sponsored degree courses or high level apprenticeships whilst in employment e.g. Bentley (Crewe) and BAE systems.</p>	