

KS4 Curriculum overview – Design and Technology 2024-25



	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Year 10	<p>Component 1: Understanding Woods: Properties, groups processes and joints.</p>	<p>Component 2: Design and making Skills: Students develop a wooden product to support and develop this knowledge</p>	<p>Component 1: Understanding CAD Design: Advantages, disadvantages manufacturing processes and industry usage.</p> <p>Component 2: Student will develop a product using CAD.</p>	<p>Component 1: Understanding Metals/Textiles: Properties, groups and manufacturing processes.</p> <p>Component 2: Student will develop a product using metal processes.</p>	<p>Component 1: Understanding Modern materials and electronic components: Properties, advantages and disadvantages processes and purpose.</p>	<p>Component 2: Eduqas GCSE contextual challenge is released; students need to identify a problem to solve for a client that relates to the one of the challenges.</p>
Year 11	<p>Component 1: Revision: Our world implication of design.</p> <p>Component 2: Investigation - and specification (20 Marks) Research the problem that need to be solved and the client needs.</p>	<p>Component 1: Revision: Smart materials, properties and use.</p> <p>Component 2: Developing Ideas Designing (30 Marks) Developing a range of design solutions.</p>	<p>Component 1: Revision: Mechanisms and electronics</p> <p>Component 2: Realising the design (30 marks) Developing design prototypes and test products</p>	<p>Component 1: Revision: Materials, properties and processes.</p> <p>Component 2: Evaluation and development (20 marks) Final coursework development review and evaluation of prototype product.</p> <p>Coursework Complete (50% Final mark)</p>	<p>Component 1: Exam theory and question practice Working through the main exam question areas.</p>	<p>Final Written exam (50% Final mark)</p>