

KS4 Curriculum overview – Design and Technology 2023-24



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