

Year 10 Specification: AQA Resistant Materials

Autumn Term		Spring Term		Summer Term	
Half Term 1 Unit Title: Resistant Materials		Half Term 3 Unit Title: Resistant Materials		Half Term 5 Unit Title: Resistant Materials	
Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Wooden Jointed Box Project	Acrylic Clock Project	Electronics Speaker Box Project	Lighting Project	Controlled Assessment Task	Controlled Assessment Task
Health and Safety	Developing and Modelling of design ideas.	Introduction and Health and Safety in Electronics.	Development of design ideas	Project Brief and Specification	Development of design ideas
Joining of woods	Types of plastic	Understanding of components.	Rapid Prototyping	3D Drawing. Analytical writing.	Orthographic Drawing
Types of Woods	Joining of plastic	Quality control	Industrial processes – forming, shaping, templates and moulding.	CAD Modelling	Exploded drawings
Accuracy and Quality Control	Heating and shaping of plastics	Understanding of Mechanisms.	Methods of Manufacture	Research of materials, finishes and joining methods	Manufacturing Specification
Presentation of designs – isometric drawing and rendering.	Sustainability of plastics			Prototype Modelling	3D Printing.
Written evaluation	Computer Aided Design – use of 2D Design and the Laser Cutter				
End of unit assessment: Exam style questions – 1hr		End of unit assessment: Exam style questions – 1hr		End of unit assessment: Exam style questions – 1hr	