

YEAR 11		Description	Levels covered	Skills & content covered
RESISTANT MATERIALS				
AUTUMN 1	Materials and Components	Candidates should be aware of the processes and techniques which aid manufacture and of the commercial application of a range of materials used in manufacturing their products in quantity.		Materials: Metals, timber, plastics, composites, smart and nanomaterials Components Adhesives and Applied finishes
AUTUMN 2	Design and Market Influences	Candidates should be taught how to analyse products and processes. They should consider how design and technology affect the manufacturer, user and environment, and the importance of health and safety issues.		understand the implication of “market-pull, technology-push”.consider the work of successful designers; use these influences to inform own designs.
SPRING 1	sustainability of design	Candidates should consider the choices of materials and processes and how they would impact on the life cycle of the product and its sustainability.		generate a product specification influenced by analysis of initial research; understand how the criteria of the design specification influence the quality of designing.
SPRING 2	Social, cultural, moral, environmental, sustainability, economic issues	Candidates should understand that designing and making reflect and influence cultures and societies. recognise that products have an impact on lifestyle;		Consumer rights legislation, product maintenance and codes of practice Sustainability and environmental issues Health and Safety Issues
SUMMER 1	Processes and Manufacture	Candidates should be aware of and use as appropriate, manufacturing processes and techniques including CAD and CAM.		techniques and processes, preparation , marking out . Joining processes