

Year 9 - Design & Technology Curriculum Implementation Plan

Knowledge and Skills – Students will be taught to...	Reading, Oracy, Literacy and Numeracy	Formative Assessment (On-going)	Summative Assessment (Middle and end of project)	Link to GCSE Content
<ul style="list-style-type: none"> • Respond to the overarching themes of Commercial Production and ‘World of Work’, Environmental Factors and Enhancement Techniques. • Creatively respond to a context analysing all factors. • Write a detailed Design Brief that fully meets the need of their user. • Undertake appropriate research. • Write a comprehensive specification or criteria. • Respond to the work of others in producing a creative range of ideas that solve their brief. • Fully analyse ideas and explain how these impact on the development. • Identify and undertake appropriate further research. • Develop their chosen idea using a range of different techniques appropriate to their product. • Choose from a range of CAD programmes (such as 2D design, Photoshop, SketchUp) effectively to develop their idea. • Plan the use of appropriate materials and processes to be used for the manufacture of their product • Independently use an ever-increasing range of tools and processes in the safe manufacture of products. • Evaluate their product against all criteria and develop possible improvements. 	<p>Reading</p> <ul style="list-style-type: none"> • Written context • Reading of gathered research prior to analysis. • Development of presentations of work to showcase their learning to others <hr/> <p>Numeracy</p> <ul style="list-style-type: none"> • Measuring techniques to ensure accuracy. • Weighing appropriate ingredients. • Consider dimensions for the manufacture of their product. • Dimension CAD files. <hr/> <p>Oracy</p> <ul style="list-style-type: none"> • Individual speaking: • Discussion of design work through peer feedback and through the evaluation of a product. • Present the outcomes of products produced and learning through small group presentations to peers and staff. 	<p>Questioning in lessons</p> <p>Whole class feedback</p> <p>Individual feedback in lessons</p> <p>Marking areas of focus and identifying areas for improvement.</p> <p>Peer and self-assessment of written work</p>	<p>Three Knowledge tests throughout the year focussing on:</p> <ul style="list-style-type: none"> • Design Process • Materials • Manufacturing Processes • Equipment/Tools • Health and Safety <p>Three marked D&T project tasks focussing on:</p> <ul style="list-style-type: none"> • Analysis and Evaluation • Design and Development • Planning and Manufacture <p>These three areas will be graded and the average used as students ‘Working At’ grade for D&T.</p>	<p>Assessment reflects the 50/50 weighting between coursework and exam.</p> <p>Developing ability to respond to more sophisticated exam questions building in complexity.</p> <p>Demonstrating that their work follows a clear and iterative design process.</p> <p>Choosing from a wide range of material areas that can be focussed upon for GCSE courses.</p> <p>Independently make use of CAD/CAM required in GCSE NEA’s</p> <p>Selecting appropriate tools and processes using them skilfully to create high quality products.</p> <p>Demonstrate an understanding of Health and Safety working practice in different environments in D&T.</p> <p>Meeting users or target market groups needs effectively through the development of a final product.</p>