



Year 13 D&T Curriculum Summary

Assessment

SUBJECT: Product design



When?

YEAR GROUP: 13

Key Questions

15) Physical modelling of ideas – with

16) Further modelling of ideas, including iterative development and testing

continual evaluation

September to Easter. This is assessed after the student deadline through NEA The pupils will be completing their NEA (Non moderation and then an examiner will clarify whether it is This work is not teacher led and as a teacher, we cannot Exam Assessment). This is a practical give individual feedback to the student. The pupils will marked accurately and fairly. If necessary, they will adjust orientated project. This may include or complete separate group tasks throughout the project that the pupil's marks. incorporate the following: are not directly related to their NEA. For example the 1) Analysis of context – identifying design pupils will be shown how to complete an Analysis of possibilities context but it will be on a completely different context 2) Exploring design possibilities, including when working pairs or individually. social and economic impacts 3) Identification of client and investigation of client needs and wants 4) Analysis of the work of others/Product analysis 5) Design brief 6) Draft specification (with reasons) 7) Investigative work (functionality, market) 8) Initial ideas 1 9) Initial ideas 2 (including some iterative development) 10) Further investigative work (functionality, aesthetics) 11) Third party feedback on ideas 12) Revised design brief and design specification 13) Evaluation of ideas, linked to specification 14) Developing ideas / CAD modelling

Teaching/Learning methods





When?	Key Questions	Teaching/Learning methods	Assessment
	 Further research (materials, manufacturing) CAD drawings Materials list (with justifications) Manufacturing Specification (production plan) Practical Diary and Quality control record sheets Comparing the final product to the design brief and design specification Third party feedback and response Evaluation of final product, including annotated picture 		
	The pupils will complete exam revision and finish topics that may not have been finished prior to the commencement of the NEA. Topics include:		
	 Major Developments in Technology Technology & cultural Changes Designers & their Work Design Styles & Movements Design Influences New Materials Product Life Cycle New Methods of Manufacture National & International Standards in Product Design Design for Manufacture & Project Management Appropriate Tools, Equipment & Processes Material Testing 	The pupils complete peer discussion , class discussion and independent work during these weeks. At the end of the module the pupils complete an evaluation. This is to promote metacognition and embed the learning through reflection. Pupils self- assess and peer assess using the rubric after completing exam style questions. The questions are differentiated over the weeks of the module using bloom's taxonomy with the higher ordered and more difficult questions being in the create or synthesise section of blooms.	The pupils are assessed using the following mediums: • Higher order questioning • Peer discussion • Self-assessment • Peer assessment • Engagement in the lesson • End of module grading • Homework tasks



Design & Technology Curriculum Summary

When?	Key Questions	Teaching/Learning methods	Assessment
		Teaching methods include the integration of: • individual & group work • on line tasks • research & investigation • past exam papers • revision booklets • teacher lead exercises	 Ability to synthesise and answer own and others questions. Engagement and ability to work with others effectively and develop key skills.