



Year 11 Design & Technology GCSE Yearly Plan



Term	Areas to be Covered
AUTUMN TERM 1	<p>NEA - Section A (Identifying & Investigating design possibilities) 10 Marks Design possibilities identified and thoroughly explored, directly linked to a contextual challenge demonstrating excellent understanding of the problems/opportunities. A user/client has been clearly identified and is entirely relevant in all aspects to the contextual challenge and student has undertaken a comprehensive investigation of their needs and wants, with a clear explanation and justification of all aspects of these. Comprehensive investigation into the work of others that clearly informs ideas. Excellent design focus and full understanding of the impact on society including; economic and social effects. Extensive evidence that investigation of design possibilities has taken place throughout the project with excellent justification and understanding of possibilities identified.</p> <p>NEA - Section B (Producing a design brief & Specification) 10 Marks Comprehensive design brief which clearly justifies how they have considered their user/client's needs and wants and links directly to the context selected. Comprehensive design specification with a very high level of justification linking to the needs and wants of the client/user. Fully informs subsequent design stages.</p> <p>NEA - Section C (Generating Design Ideas) 20 Marks Imaginative, creative and innovative ideas have been generated, fully avoiding design fixation and with full consideration of functionality, aesthetics and innovation. Ideas have been generated, that take full account of on-going investigation that is both fully relevant and focused. Extensive experimentation and excellent communication is evident, using a wide range of techniques. Imaginative use of different design strategies for different purposes and as part of a fully integrated approach to designing.</p> <p>Exam Prep – Specialist Technical Principles Knowledge required of a specific material: Timber based materials / Textile based materials / Papers & Boards</p>
HALF-TERM	
AUTUMN TERM 2	<p>NEA - Section C Continued (Generating Design Ideas) 20 Marks NEA - Section D (Developing Design Ideas) 20 Marks Very detailed development work is evident, using a wide range of 2D/3D techniques (including CAD where appropriate) in order to develop a prototype. Excellent modelling, using a wide variety of methods to test their design ideas, fully meeting all requirements. Fully appropriate materials/components selected with extensive research into their working properties and availability. Fully detailed manufacturing specification is produced with comprehensive justification to inform manufacture.</p> <p>Exam Prep - Core Technical Principles Knowledge required of: New & Emerging Technologies / Energy Generation & Storage / Developments in new materials / Systems approach to designing / Mechanical Devices / Materials & their working properties.</p> <p>2 Hour Mock Exam in November This mock exam covers all of the three sections.</p>
END OF TERM CHRISTMAS HOLIDAYS	
SPRING TERM 1	<p>NEA - Section D Continued (Developing Design Ideas) 20 Marks NEA - Section E (Realising Design Ideas) 20 Marks The correct tools, materials and equipment (including CAM where appropriate) have been consistently used or operated safely with an exceptionally high level of skill. A high level of quality control is evident to ensure the prototype is accurate by consistently applying very close tolerances. Prototype shows an exceptionally high level of making/finishing skills that are fully consistent and appropriate to the desired outcome. An exceptionally high-quality prototype that has the potential to be commercially viable has been produced and fully meets the needs of the client/user.</p> <p>Exam Prep – Designing & Making Principles Knowledge required of: Investigation, primary & secondary data / Environmental, social & economic challenge / The work of others / Design Strategies / Communication of design ideas / Prototype development / Specialist Material</p>
HALF TERM	
	NEA - Section E (Realising Design Ideas) 20 Marks

SPRING TERM 2	NEA - Section F (Analysing & Evaluating) 20 Marks Extensive evidence that various iterations are as a direct result of considerations linked to testing, analysis and evaluation of the prototype, including well considered feedback from third parties. Comprehensive testing of all aspects of the final prototype against the design brief and specification. Fully detailed and justified reference is made to any modifications both proposed and undertaken. Excellent ongoing analysis and evaluation evident throughout the project that clearly influences the design brief and the design and manufacturing specifications.
	Handing in of Coursework Exam Prep – Practice Questions
END OF TERM EASTER HOLIDAYS	
SUMMER TERM 1	Exam Prep – Revision for the final exam / Practice questions Students will be working their way through a revision booklet that will be printed for them. This covers all exam content looking at a different area every two lessons. The booklet is laid out so that notes can be made through the first two lessons and then they will answer a number of exam questions linked to the subject area. Students can then peer mark one another's work using a purple pen following the mark scheme on the board. Students who miss lessons can catch up as all of the powerpoint and content is on www.sohamdt.com . Students are also told to listen to the correct podcast at the end of the week just to go over everything they have learnt. There is also a booklet that can be completed as they listen to the podcasts.
HALF TERM	

2.2 Assessments

Paper 1
What's assessed <ul style="list-style-type: none">• Core technical principles• Specialist technical principles• Designing and making principles
How it's assessed <ul style="list-style-type: none">• Written exam: 2 hours• 100 marks• 50% of GCSE
Questions <p>Section A – Core technical principles (20 marks)</p> <p>A mixture of multiple choice and short answer questions assessing a breadth of technical knowledge and understanding.</p> <p>Section B – Specialist technical principles (30 marks)</p> <p>Several short answer questions (2–5 marks) and one extended response to assess a more in depth knowledge of technical principles.</p> <p>Section C – Designing and making principles (50 marks)</p> <p>A mixture of short answer and extended response questions.</p>

Non-exam assessment (NEA)
What's assessed <p>Practical application of:</p> <ul style="list-style-type: none">• Core technical principles• Specialist technical principles• Designing and making principles
How it's assessed <ul style="list-style-type: none">• Non-exam assessment (NEA): 30–35 hours approx• 100 marks• 50% of GCSE
Task(s) <ul style="list-style-type: none">• Substantial design and make task• Assessment criteria:<ul style="list-style-type: none">• Identifying and investigating design possibilities• Producing a design brief and specification• Generating design ideas• Developing design ideas• Realising design ideas• Analysing & evaluating• In the spirit of the iterative design process, the above should be awarded holistically where they take place and not in a linear manner• Contextual challenges to be released annually by AQA on 1 June in the year prior to the submission of the NEA• Students will produce a prototype and a portfolio of evidence• Work will be marked by teachers and moderated by AQA