



Subject	Year	Term		
Design and Technology	10	1		
Topic				
Mock NEA and Theory				
Content (Intent)				
Prior Learning (Topic) KS3 D&T				
Students will start with 4 weeks of practical skills making Eames metal shaped animals, a wooden laminated pebble keyring and an angle poise light.				
Students will design and make a speaker as a mock NEA in preparation for their final NEA				
Students will cover two units of the theory work in preparation for their final exam.				
<ul style="list-style-type: none"> • New and Emerging Technologies • Energy, material and systems 				
Future Learning (Topic) Mock NEA, Unit 3 and 4 Theory.				
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)			
Students will start with a skills boost and then complete a mock NEA following the iterative design process. The first half term will focus on investigating the problem, identifying a client and setting out a Specification	Students will be given a copy of the GCSE assessment criteria and at the end of each section awarded a mark and written feedback. They must then act on this feedback to improve their overall grade (1-9)			
For two lessons a fortnight students will be participating in theory lessons in preparation for the exam. The first half term they will be covering new and emerging technologies.			At the end of each theory unit is a test. If a grade 4 is not achieved students will be asked to re-sit it at a later date.	
The second half term will focus on designing and developing a product including sketching, modelling, CAD and reacting to feedback from their client. Theory lessons in preparation for the exam will cover energy, materials and systems.				
How can parents help at home?				
You can support your child by discussing the project with them and making sure they meet their deadlines. You can also support by discussing the unit tests with them and monitoring how much revision they are doing for the tests.				
Helpful further reading/discussion (including Reading and Vocabulary Lists)				
Reading <ul style="list-style-type: none"> • My revision notes ISBN-10: 1510432329 GCSE Pod Cast www.technologystudent.com	Vocabulary Lists <ul style="list-style-type: none"> Automated Innovation Crowd Funding Finite Fairtrade Crowd funding Inclusive design Market Pull Enterprise 	<ul style="list-style-type: none"> Renewable energy Ecological footprint Product Life Cycle Carbon miles Technology Push Lean Manufacturing Planned Obsolesces Disposal Maintenance Co-operative 		