



All Saints' Catholic High School

Luceat lux Vestra

Subject: Design and Technology

Year: 11

11	Unit 1 - NEA part 1 - Investigation	Unit 2 - NEA part 2 - Generation of ideas	Unit 3 - NEA part 3 - Idea development	Unit 4 - NEA part 4 - Evaluation	Unit 5 - NEA part 5 - Exam preparation	
Aim of Unit	In this unit pupils will continue to complete the GCSE NEA Controlled Task Assessment. Pupils will focus on the research and investigation phase of the project. By the end of this unit pupils should have completed section A and B of the NEA.	In this unit pupils will continue to complete the GCSE NEA Controlled Task Assessment. Pupils will focus on the creative phase of the project as they use the work they completed in unit 1 to help them generate and communicate a range of design ideas for section C of the NEA.	In this unit pupils will continue to complete the GCSE NEA Controlled Task Assessment. Pupils will be required to use the work produced in units 1 and 2 as they develop and refine their ideas into a final design. At this stage pupils will need to complete the manufacturing phase of the NEA project.	In this unit pupils will continue to complete the GCSE NEA Controlled Task Assessment. This is the final phase of the project and pupils will need to test and evaluate the final outcome. They will then be required to collate their folder work ready for marking and moderation.	The aim of this project is to ensure the pupils are prepared for the final written exam that will account for 50% of the overall GCSE grade.	

<p>Composite Knowledge</p> <p><i>(a task that requires several building blocks or components)</i></p>	<p>In this unit pupils will complete sections A and B of the NEA project.</p>	<p>In this unit pupils will complete section C of the NEA project.</p>	<p>In this unit pupils will complete sections D and E of the NEA project.</p>	<p>In this unit pupils will complete section F of the NEA project.</p>	<p>Pupils will complete a range of activities in order to prepare for the final written GCSE exam.</p>	
<p>Component Knowledge</p> <p><i>(the building blocks that together, when known, allow successful performance of a complex task)</i></p>	<ul style="list-style-type: none"> - How to write a design brief. - How to write a specification. - Primary and secondary research techniques. 	<ul style="list-style-type: none"> - Drawing skills. - Annotation of design ideas. - Analysis of research to inform design thinking. - Consideration of functionality and aesthetics. - Creative use of design strategies. 	<ul style="list-style-type: none"> - 3D isometric drawing skills. - 2D orthographic drawing skills. - Producing parts and cutting lists. - CAD drawing skills - Selection and use of tools and equipment. - Working with a range of materials to produce prototypes. 	<ul style="list-style-type: none"> - Ongoing analysis and evaluation of own work to improve outcomes. - Evaluation against design brief and specification. - Final testing and evaluation of prototype, including target market testing. 	<ul style="list-style-type: none"> - Analysis of PCP's. - Review of revision techniques. - Topic reviews. - Retrieval practice. - Exam question annotation. - Modelling of past exam questions. - Practice questions 	
<p>Rationale (why?): Links to prior & future learning</p>	<p>The NEA project is a compulsory element of the GCSE and is worth 50% of the pupil's overall GCSE grade. Pupils will need to draw on past knowledge and skills in order to work independently on the NEA project.</p>	<p>The NEA project is a compulsory element of the GCSE and is worth 50% of the pupil's overall GCSE grade. Pupils will need to draw on past knowledge and skills in order to work independently on the NEA project.</p>	<p>The NEA project is a compulsory element of the GCSE and is worth 50% of the pupil's overall GCSE grade. Pupils will need to draw on past knowledge and skills in order to work independently on the NEA project.</p>	<p>The NEA project is a compulsory element of the GCSE and is worth 50% of the pupil's overall GCSE grade. Pupils will need to draw on past knowledge and skills in order to work independently on the NEA project.</p>	<p>Reviewing past learning, this unit will prepare pupils for sections A, B and C of the GCSE exam. All topics included in this unit are compulsory elements of the Design Technology GCSE.</p>	

Assessment Task	Generic formative feedback in line with AQA guidance. (AO1)	Generic formative feedback in line with AQA guidance. (AO2)	Generic formative feedback in line with AQA guidance. (AO2)	Generic formative feedback in line with AQA guidance. (AO3)	Mock/Pre Public Examination and practice questions. (AO4)	
Enrichment	Design museum visit/virtual visit.	NASA VR visits.	STEM careers talk.	How to manage stress talk.	How memory works talk.	