

Landau Learner Curriculum Overview

Subject: GCSE Design and Technology

Director of Learning: GM Year: 9

Curriculum organisation				
Students are taught in mixed ability for the equivalent of five single lessons per week. They follow the AQA 9-1 Design & Technology Specification.				
What topics will students be studying this year? Includes links to Specification, Curriculum Intent and Prior Related Learning*				
Term 1:	Term 2:	Term 3:	Term 4:	Term 5:
Design Theory and Skills <ul style="list-style-type: none"> What is design? Where do products come from? Evolution of the Radio Design communication – Sketching and Model Making Introduction to SolidWorks 	Design Theory and Skills <ul style="list-style-type: none"> CAD drawing – Isometric and Orthographic Projection Maths for Design 	Design Theory and Skills <ul style="list-style-type: none"> CAD drawing – Isometric and Orthographic Projection Maths for Design 	Design Theory and Skills <ul style="list-style-type: none"> CAD drawing – Isometric and Orthographic Projection Maths for Design 	Design Theory <ul style="list-style-type: none"> Sustainable design Planned Obsolescence Material Properties
Radio Project <ul style="list-style-type: none"> Analysis, Research Brief Specification 	Radio Project <ul style="list-style-type: none"> Development of Ideas Circuit board soldering Model Making 	Radio Project <ul style="list-style-type: none"> Development of idea Planning for Manufacture 	Radio Project <ul style="list-style-type: none"> Manufacture of the design 	Radio Project <ul style="list-style-type: none"> Evaluation and Testing Suggested Improvements
Prior Learning: Y7&Y8 Electronic Product AQA 9-1: Core technical principles Intent: we encourage students to develop an iterative, hands on approach to problem solving.	Prior Learning: Y8 Graphics AQA 9-1: Specialist technical principles Intent: students will be able to develop tests to help to evaluate against specific design criteria	Prior Learning: Y7&Y8 CAD, Y7 Graphics AQA 9-1: Designing and making principles Intent: we aim to develop the students into independent, creative, resilient problem solvers.	Prior Learning: Y7&Y8 Electronic Product AQA 9-1: Designing and making principles Intent: While making, students will be given exposure to a range of material areas, whilst developing safe working practices and consideration of others.	Prior Learning: Y8 Electronic Product AQA 9-1: Core technical principles Intent: We also aim to have students who are responsible citizens and better consumers: students who possess a good understanding of environmental, moral ethics and sustainability
Equipment needed for sessions:		What can you do to support your child?		
<ul style="list-style-type: none"> Design sketch book A3 folder for storing larger work, technical drawings etc. Pencil case with basic equipment Black fine line and felt tip pen 		<ul style="list-style-type: none"> Encourage your child to practise their drawing and sketching skills regularly. Encourage your child to watch/listen to design based programmes on TV such as How it's Made, Extreme Engineering, etc Encourage them to complete the homework tasks they are set by their Design tutor to a high standard, asking them to show you the finished work. 		
How will learning be assessed and progress measured?		Extension and enrichment activities:		
<ul style="list-style-type: none"> Marking of written is carried out on a regular basis in line with the College policy 				