

# Landau Learner Curriculum Overview

Subject: GCSE Design and Technology

Director of Learning: GM Year: 11

Curriculum organisation			
Students are taught in mixed ability for the equivalent of six single lessons per week. They follow the AQA 9-1 Design & Technology Specification			
What topics will students be studying this year? Includes links to National Curriculum, Curriculum Intent and Prior Related Learning*			
Term 1:	Term 2:	Term 3:	Term 4:
<b>NEA Section A (Investigation into design possibilities)</b> <ul style="list-style-type: none"> <li>Primary and secondary research</li> </ul> <b>NEA Section B</b> <ul style="list-style-type: none"> <li>Design Brief</li> <li>Specification</li> </ul> <b>NEA Section C (Generation of ideas)</b> <ul style="list-style-type: none"> <li>Generation and evaluation of ideas</li> </ul>	<b>NEA Section D (Development of ideas)</b> <ul style="list-style-type: none"> <li>Development and model making</li> <li>CAD/ CAM</li> <li>Final Design</li> <li>Working drawings</li> <li>Production Planning</li> <li>Quality control</li> </ul>	<b>NEA Section E (Realising design ideas)</b> <ul style="list-style-type: none"> <li>Marking Out</li> <li>Tolerance</li> <li>Manufacture</li> <li>Finishes</li> </ul> <b>NEA Section F (Analysing and evaluating)</b> <ul style="list-style-type: none"> <li>Evaluation</li> <li>Testing</li> </ul>	<b>NEA final look</b> <ul style="list-style-type: none"> <li>Students self-assess against criteria</li> <li>Make final changes before submission</li> <li>Moderation</li> </ul> <b>Revision for exam</b> <ul style="list-style-type: none"> <li>Specialist material: Polymers</li> <li>Communication of design questions</li> <li>Maths in DT</li> <li>Command words</li> <li>Ten top tips for success</li> <li>What to do in the examination room</li> </ul>
<b>Design Theory and Skills</b> <ul style="list-style-type: none"> <li>Product Analysis</li> <li>Smart Materials</li> <li>Modern Materials</li> </ul>	<b>Design Theory and Skills</b> <ul style="list-style-type: none"> <li>Electronic Systems</li> <li>Health and Safety – Risk Assessments</li> <li>Textiles</li> </ul>	<b>Design Theory and Skills</b> <ul style="list-style-type: none"> <li>Marking Out</li> <li>Tolerance</li> <li>Finishes</li> </ul>	
<b>Prior Learning:</b> Y7,Y8 electronic product, Y9 Mini-makes, Y10 Clothes Iron Design, Y10 Clock Design <b>AQA 9-1:</b> Core technical principles <b>Intent:</b> we encourage students to develop iterative, hands on approach to problem solving.	<b>Prior Learning:</b> Y7,Y8 electronic product, Y9 Mini-makes, Y10 Clothes Iron Design, Y10 Clock Design <b>AQA 9-1:</b> Specialist technical principles <b>Intent:</b> While making, students will be given exposure to a range of material areas	<b>Prior Learning:</b> Y7,Y8 electronic product, Y9 Mini-makes, Y10 Clothes Iron Design, Y10 Clock Design <b>AQA 9-1:</b> Specialist technical principles <b>Intent:</b> While making, students will be given exposure to a range of material areas	<b>Prior Learning:</b> Consolidation of knowledge across all projects taught <b>AQA 9-1:</b> Designing and making principles <b>Intent:</b> each project is entrenched in technical knowledge and vocabulary
Equipment needed for sessions:		What can you do to support your child?	
<ul style="list-style-type: none"> <li>Design sketch book</li> <li>Blue theory binder from Yr. 9/10</li> <li>A3 folder for storing larger work, technical drawings etc.</li> <li>PG Online AQA GCSE Textbook</li> <li>Revision study guide</li> <li>Pencil case with basic equipment</li> <li>Black fine line and felt tip pen</li> </ul>		<ul style="list-style-type: none"> <li>Encourage your child to practise their drawing and sketching skills regularly.</li> <li>Encourage your child to watch/listen to design based programmes on TV such as how it is Made, Extreme Engineering, etc.</li> <li>Encourage them to read news articles on the BBC News app about design and technology articles.</li> <li>Encourage them to read Design books for the information centre.</li> <li>Encourage them to complete their NEA Project tasks to a high standard, asking them to show you the finished work.</li> </ul>	
How will learning be assessed and progress measured?		Extension and enrichment activities:	
<ul style="list-style-type: none"> <li>Marking of written is carried out on a regular basis in line with the College policy</li> </ul>		<ul style="list-style-type: none"> <li>Clinics will be provided two nights a week for students to get extra time and help in the workshop for working on their NEA Project.</li> </ul>	