

# Landau Learner Curriculum Overview

Subject: A Level Product Design Director of Learning: GM Year: 12

Curriculum organisation				
Students are taught in mixed ability for the equivalent of ten single lessons per week. 5 sessions are devoted to Design practice and 5 sessions to Design Theory. They follow the AQA Design Technology: Product Design 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:
<b>Design Practise – Foundation Skills</b> <ul style="list-style-type: none"> <li>• Sketching and Marker Rendering,</li> <li>• Model Making</li> <li>• CAD Modelling</li> <li>• Mathematical modelling</li> </ul>	<b>Design Practise – Body Adornment</b> <ul style="list-style-type: none"> <li>• Project Identification</li> <li>• Research skills</li> <li>• Idea Generation</li> <li>• Development based on an iterative approach</li> <li>• Manufacture of a Quality Product.</li> </ul>	<b>Design Practise – Design for a Client</b> <ul style="list-style-type: none"> <li>• Working with a client</li> <li>• Product Development</li> <li>• Presentation boards</li> <li>• Production planning</li> <li>• Prototype Manufacture</li> <li>• Evaluation and Testing.</li> </ul>	<b>NEA Project</b> <ul style="list-style-type: none"> <li>• Project Identification</li> <li>• Research</li> </ul>	
<b>Design Theory</b> <ul style="list-style-type: none"> <li>• Materials Properties and Testing</li> <li>• Polymers</li> <li>• Timber</li> </ul>	<b>Design Theory</b> <ul style="list-style-type: none"> <li>• Metals</li> <li>• Modern Materials</li> <li>• Smart Materials</li> <li>• Composites</li> </ul>	<b>Design Theory</b> <ul style="list-style-type: none"> <li>• Product Analysis</li> <li>• Human Factors</li> <li>• Scale of Production</li> </ul>	<b>Design Theory</b> <ul style="list-style-type: none"> <li>• Legislation in design</li> <li>• QA and Quality Control</li> <li>• Sustainability</li> <li>• IP and Copyright</li> </ul>	<b>Design Theory</b> <ul style="list-style-type: none"> <li>• Technology and cultural changes</li> <li>• Advertising and Branding</li> </ul>
<b>Prior Learning:</b> GCSE projects <b>A Level Specification:</b> Technical principles 3.1.1 Materials and their application Digital design and manufacture <b>Intent:</b> students will be given exposure to a range of material areas	<b>Prior Learning:</b> GCSE projects <b>A Level Specification:</b> Design methods and processes Iterative design process <b>Intent:</b> we encourage students to develop an iterative, hands on approach to problem solving.	<b>Prior Learning:</b> GCSE projects <b>A Level Specification:</b> Iterative design process <b>Intent:</b> we aim to develop students who realise how their decisions can impact other people and environments, positively and negatively.	<b>Prior Learning:</b> GCSE projects <b>A Level Specification:</b> Responsible design <b>Intent:</b> develop the students into independent, creative, resilient problem solvers.	<b>Prior Learning:</b> GCSE projects <b>A Level Specification:</b> Social, moral and ethical issues <b>Intent:</b> We aim for Students to understand that designers are working towards making a better world and that the work they do is critical to the success of our society.

Equipment needed for sessions:	What can you do to support your child?
<ul style="list-style-type: none"> <li>• Design sketch book for notes</li> <li>• A3 Design Sketchbook for Design Practise.</li> <li>• A3 folder for storing larger work, technical drawings etc.</li> <li>• Textbook</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's 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> </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>	