

# Landau Learner Curriculum Overview

Subject: Design and Technology Director of Learning: GM Year: 9

Curriculum organisation				
Students are taught in mixed ability for the equivalent of four single lessons per fortnight. Students build on technical knowledge gained over Year 7 & 8. Projects focus on design, make, evaluate as well as giving an understanding of context.				
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:	Term 5:
<b>Theory &amp; Practical Skills</b> <b>WHAT IS DESIGN?</b> <b>What is a designer?</b>  <b>TIMBER PROJECT</b> <ul style="list-style-type: none"> <li>Timber theory</li> <li>Soap dish project</li> </ul>	<b>Theory &amp; Practical Skills</b> <b>DESIGN COMMUNICATION PROJECT</b> <ul style="list-style-type: none"> <li>Isometric drawing</li> <li>Orthographic drawing</li> <li>2&amp;3 point perspective</li> <li>Sketching</li> <li>Enhancement techniques</li> </ul>	<b>Theory &amp; Practical Skills</b> <b>METALWORK PROJECT</b> <ul style="list-style-type: none"> <li>Metal theory</li> <li>Bottle opener project</li> </ul>	<b>Theory &amp; Practical Skills</b> <b>FOAM BOARD MODELLING</b> <ul style="list-style-type: none"> <li>Skills building practise</li> <li>Foam board design and making Trinket box</li> <li></li> </ul>	<b>Theory &amp; Practical Skills</b> <b>ARCHITECTURAL PROJECT</b> <ul style="list-style-type: none"> <li>Writing a Specification</li> <li>Initial Design Ideas</li> <li>Architectural Design using Sketch Up</li> <li>Foam board modelling &amp; iterations</li> </ul>
<b>CAD Design Development</b> <ul style="list-style-type: none"> <li>Solidworks recap</li> </ul>	<b>Cufflink Project</b> <ul style="list-style-type: none"> <li>Application of CAD skills</li> <li>Polymers theory</li> </ul>	<b>2D Design Skills</b> <ul style="list-style-type: none"> <li>Isometric Design skills</li> </ul>	<b>2D Design Skills</b> <ul style="list-style-type: none"> <li>Orthographic drawing</li> </ul>	<b>Sketch Up Development</b> <ul style="list-style-type: none"> <li>Development of skills</li> <li>Laser cutting practical</li> </ul>
<b>Prior Learning:</b> Yr8 LED project, Yr8 Solidworks	<b>Prior Learning:</b> Y7&8 CofD Yr8 & LED light, Yr8 Solidworks	<b>Prior Learning:</b> Y7&Y8 CAD, Y7 Communication of Design Ideas, Yr7 2D Design	<b>Prior Learning:</b> Y7&Y8 Communication of Design Ideas, Yr7 2D Design	<b>Prior Learning:</b> Y8 Electronic Product, Yr8 Solidworks, Yr7 Laser cut key rings.
<b>Prior Learning: KS3</b> Building on techniques and processes from year 7 & 8. <b>National Curriculum:</b> students use specialist tools precisely included computer aided manufacture. <b>Intent:</b> students will be able to develop tests to help to evaluate against specific design criteria	<b>Prior Learning: KS3</b> Building on Communication of Ideas and CAD and workshop techniques from year 7 & 8. <b>National Curriculum:</b> Students use specialist tools precisely included computer aided manufacture. <b>Intent:</b> students will be able to develop tests to help to evaluate against specific design criteria	<b>Prior Learning: KS3</b> Building on techniques and processes from year 7 & 8. <b>National Curriculum:</b> Students use specialist tools precisely included computer aided manufacture. <b>Intent:</b> students will be able to develop tests to help to evaluate against specific design criteria	<b>Prior Learning: KS3</b> Building on techniques and processes from year 7 & 8. <b>National Curriculum:</b> Students use a wider, more complex range of materials, components and ingredients, taking into account their properties. <b>Intent:</b> students will be able to develop tests to help to evaluate against specific design criteria	<b>Prior Learning: KS3</b> Building on Communication of Ideas and CAD and workshop techniques from year 7 & 8. <b>National Curriculum:</b> Students use specialist tools precisely included computer aided manufacture. <b>Intent:</b> students will be able to develop tests to help to evaluate against specific design criteria
Equipment needed for sessions:			What can you do to support your child?	

<ul style="list-style-type: none"> <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 its Made, Extreme Engineering, The Repair Shop, etc</li> <li>• 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.</li> </ul>
<b>How will learning be assessed and progress measured?</b>	<b>Extension and enrichment activities:</b>
<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>• Yr9 DT Clinic to enable students to finish project work.</li> </ul>