

## Learning Programme Year 1 Design Technology

Topic/Content	Objectives/Skills	Homework	Assessment	Success Criteria (for E/S/D at KS3)	Stretch & Challenge (Thirst for Learning)
Week 1 Brief and task analysis DMP3.3.1	To learn how to use a design brief to complete a task analysis	<p>Student will complete a flipped learning homework booklet containing the following topics:</p> <p><b>Homework topics</b></p> <p>CTP 3.1.3 Developments in new Materials CTP 3.1.4 Systems approach to designing CTP 3.1.6 Material Categories STP 3.2.8 specialist techniques and processes</p> <ol style="list-style-type: none"> <li>1. Flipped learning papers and boards</li> <li>2. Flipped learning Plastics</li> <li>3. Flipped learning Composites</li> <li>4. Flipped learning Smart materials</li> <li>5. Flipped learning modern materials</li> <li>6. Design Ideas</li> <li>7. Vacuum forming mould</li> </ol>	<p>Excellent 8-10 marks Secure 5-7 marks Developing 1-5 marks</p> <p>Each lesson will have success criteria to achieve marks out of 10.</p> <p>Self and peer assessments will happen in lessons where applicable against the individual lesson success criteria using grades 1-10</p> <p>End of unit test of knowledge. Mix of multiple choice and short answer response to mirror the AQA GCSE exam paper format</p>	<p><b>Excellent</b></p> <ul style="list-style-type: none"> <li>• Working consistently between grades 8 – 10 in lessons</li> <li>• Creative design not copied</li> <li>• Outstanding presentation of design work with full use of grids and guide to communicate work</li> <li>• All aspects of the specification fully met</li> </ul> <p><b>Secure</b></p> <ul style="list-style-type: none"> <li>• Working consistently between grades 5 – 7 in lessons</li> <li>• Produced a design not copied but lacking creativity</li> <li>• Good presentation of design work All aspects of the specification fully met</li> </ul> <p><b>Developing</b></p> <ul style="list-style-type: none"> <li>• Working consistently between grades 1 – 4 in lessons</li> <li>• Copied design idea</li> <li>• Poor presentation of design work Most aspects of the specification fully met</li> </ul>	<p>Use the GCSE BBC bitesize link to revise, watch the activities and complete the tests for the following topics:</p> <ul style="list-style-type: none"> <li>• Graphics- papers and boards</li> <li>• Electronics – Inputs, outputs and processes</li> <li>• Resistant Materials</li> <li>• Social, moral and environmental issues</li> </ul> <p><a href="http://www.bbc.co.uk/schools/gcsebitesize/design/">http://www.bbc.co.uk/schools/gcsebitesize/design/</a></p>
Week 2 Materials CTP 3.1.6 Papers and boards	To learn about the different paper and board categories and their uses.				
Week 3 Materials CTP3.1.6 Plastics	To learn about the different plastics categories and their uses.				
Week 4 Designing DMP 3.3.5	To learn how to produce design ideas for the mini-light against a design specification				
Week 5 Electronic Systems CTP 3.1.4	To learn about inputs, processes and outputs				
Week 6 Designing DMP 3.3.5	To learn how to develop design ideas for the packaging against a design specification				
Week 7 Vacuum Forming STP 3.2.8	To learn about the vacuum forming process				
Week 8 Manufacturing DMP 3.3.6	To learn how to make a working prototype of the mini-light				
Week 9 Ecological and social footprint PAPER STP 3.2.3	To learn about the environmental impact of using papers and boards <ul style="list-style-type: none"> <li>• Life cycle and deforestation</li> <li>• 6Rs</li> </ul>				
Week 10 Ecological and social footprint PLASTICS STP 3.2.3	To learn about the environmental impact of using plastics <ul style="list-style-type: none"> <li>• Life cycle and deforestation</li> <li>• 6Rs</li> </ul>				
Week 11 Testing and Evaluation	To learn how to test and evaluate the product				