

# Design and Technology KS3 Curriculum Overview

## Design Technology Curriculum Overview- KS3 2023/2024

<b>KS3 DT Overview</b>	<p>During Year Key stage 3, students will design and then manufacture a range of products using different materials. Students will be taught the relevant skills and knowledge to be confident and competent in using materials, tools and machinery in practical projects throughout the year, communicating their ideas and designs by using a variety of techniques and processes.</p> <p>Whilst developing these valuable practical skills students will be taught how to work following health and safety guidelines, ensuring that all students are safe whilst working with a range of resistant and non-resistant materials, tools, drawing media tools and equipment. Students will be encouraged to investigate and analyse design and technology innovation and use this to inform their own work, and they will understand the responsibilities of designers, including environmental responsibilities, safety to user and manufacturer.</p> <p>Over the course of Key Stage 3, students will be taught the following skills and knowledge-</p> <ul style="list-style-type: none"> <li>• The Design Cycle (including design briefs, specifications and user requirements)</li> <li>• Analysis and Research (including industrial process, materials and the law)</li> <li>• Presenting design ideas (including a range of techniques, British Standards and Computer Aided Design)</li> <li>• Manufacturing (including production plans, safe working practices, use of tools and machinery and evaluation)</li> </ul>
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Week Number	Themes/ Topics	Key Knowledge & Skills	Key Assessments
1-9 Year 7	<b>Kandinsky wall hanging</b>	<ul style="list-style-type: none"> <li>• Health and safety in the workshop</li> <li>• Workshop Risks and how to avoid them</li> <li>• Recycling</li> <li>• Materials in the environment</li> <li>• Methods of sewing and painting on fabric</li> <li>• Researching artists and taking influence from their work</li> </ul>	<ul style="list-style-type: none"> <li>• Year 7 end of topic assessment</li> <li>• Kandinsky textiles wall hanging</li> </ul>
10-20 Year 7	<b>Anthropomorphic lamp</b>	<ul style="list-style-type: none"> <li>• Production plans of making, including designing, making, health and safety, quality control and how the product could be made in industry</li> <li>• Use of specific tools and equipment</li> <li>• Manufacturing of a lamp</li> <li>• Process of creating mechanisms and electronics</li> <li>• Working with a client</li> </ul>	<ul style="list-style-type: none"> <li>• Practical making skills</li> <li>• Manufactured lamp</li> <li>• Electronics and mechanisms</li> </ul>

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<p><b>1-8</b> Year 8</p>	<p><b>LED Light box</b></p>	<ul style="list-style-type: none"> <li>• Health and safety in the workshop</li> <li>• Workshop Risks and how to avoid them</li> <li>• Recycling</li> <li>• Materials in the environment</li> <li>• Accurate measuring skills</li> <li>• Researching clients for a brief</li> <li>• Use of specific tools and equipment</li> <li>• Process of adding electronics</li> </ul>	<ul style="list-style-type: none"> <li>• Year 8 end of topic assessment</li> <li>• Accurately measured LED Light box</li> </ul>
<p><b>9-13</b> Year 8</p>	<p><b>Extension- Recycled material food book</b></p>	<ul style="list-style-type: none"> <li>• Health and safety in the workshop</li> <li>• Workshop Risks and how to avoid them</li> <li>• Recycling</li> <li>• Researching a wider range of materials</li> <li>• Accurate measuring skills</li> <li>• Researching specific clients for a brief</li> <li>• Use of specific tools and equipment</li> <li>• The process of creating an 'easy to understand' book</li> </ul>	<ul style="list-style-type: none"> <li>• Mixed material book</li> <li>• All materials held together tightly</li> </ul>
<p><b>1-8</b> Year 9</p>	<p><b>Pop Art clock</b></p>	<ul style="list-style-type: none"> <li>• Health and safety in the workshop</li> <li>• Workshop Risks and how to avoid them</li> <li>• Researching a wider range of materials</li> <li>• Accurate measuring skills</li> <li>• Researching clients for a brief</li> <li>• Use of specific tools and equipment</li> <li>• Researching artist movements and artists relevant to the theme</li> </ul>	<ul style="list-style-type: none"> <li>• Year 9 end of topic assessment</li> <li>• Acrylic clock inspired by Pop art</li> </ul>
<p><b>9-20</b> Year 9</p>	<p><b>Extension 3D printing- Character design</b></p>	<ul style="list-style-type: none"> <li>• Creating a character or creature for a game</li> <li>• Researching artists relevant to the topic</li> <li>• Researching different drawing/ character styles</li> <li>• Gaming companies with unique characters</li> <li>• Linking with Nelson and Colne college to experience the process of a 3D printer</li> </ul>	<ul style="list-style-type: none"> <li>• Character design sheet</li> <li>• 3D printed character</li> </ul>
<p><b>1-14</b> Year 9 Graphics</p>	<p><b>Graphic Design Project festivals</b></p>	<ul style="list-style-type: none"> <li>• Typography skills</li> <li>• Logo design</li> <li>• Researching clients for a brief</li> <li>• Research of existing products – Festivals</li> </ul>	<ul style="list-style-type: none"> <li>• Typography skills</li> <li>• Colour theory</li> <li>• Research skills</li> <li>• Product design</li> </ul>

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|  |  | <ul style="list-style-type: none"><li>• Design of different products</li><li>• Experimentation with design ideas</li><li>• Completion of final product</li></ul> |  |
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