

Design and Technology Year 7 Curriculum Overview 2022/23



Design Technology Curriculum Overview- Year 7 2022/2023

Year 7 DT Overview	<p>During Year 7, 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"> • the Design Cycle (including design briefs, specifications and user requirements) • Analysis and Research (including industrial process, materials and the law) • Presenting design ideas (including a range of techniques, British Standards and Computer Aided Design) • Manufacturing (including production plans, safe working practices, use of tools and machinery and evaluation)
---------------------------	--

Week Number	Themes/ Topics	Key Knowledge & Skills	Key Assessments
1-6 (Autumn 1)	Acrylic Keyring	<ul style="list-style-type: none"> • Health and safety in the workshop • Health and safety when using hand tools and equipment • Workshop Risks and how to avoid them • Thermoset and thermoplastics • Recycling • Plastics in the environment 	<ul style="list-style-type: none"> • Year 7 Baseline Assessment • Acrylic Keyring design ideas
7-13 (Autumn 2)	Acrylic Keyring	<ul style="list-style-type: none"> • Production plans of making, including designing, making, health and safety, quality control and how the product could be made in industry • Use of specific tools and equipment • Manufacturing of key ring • Methods of finishing acrylic- to be explored and applied 	<ul style="list-style-type: none"> • Practical making skills • Manufactured keyring

Design and Technology Year 7 Curriculum Overview 202223



<p>14-18 (Spring 1)</p>	<p>Mini Monsters</p>	<ul style="list-style-type: none"> • Artist research • Understanding of a brief and product specification • Application of understanding the brief and specification • Development of design ideas 	<ul style="list-style-type: none"> • Mini Monster final design idea- ensuring it has linked to the brief and product specification
<p>19-24 (Spring 2)</p>	<p>Mini Monsters</p>	<ul style="list-style-type: none"> • Development of textiles based practical skills • Using a range of different stitches • Manufacturing of mini monster • Evaluating of produced pieces in relation to the brief and product specification 	<ul style="list-style-type: none"> • Practical skills – teacher observation • Manufactured mini monster • Mini Monster Evaluation
<p>25-30 (Summer 1)</p>	<p>Block Bots</p>	<ul style="list-style-type: none"> • Understanding of a brief and product specification • Working to a product specification • Development of designs in line with the specification • Product characterisation and final designs 	<ul style="list-style-type: none"> • Block Bots final design idea • Year 7 End of year exam
<p>31-38 (Summer 2)</p>	<p>Block Bots</p>	<ul style="list-style-type: none"> • Health and Safety when using machinery • Development of woodworking processes in the workshop • Manufacturing of the Block Bot • Aesthetics and finishing of the Block Bot to look like character 	<ul style="list-style-type: none"> • Practical skills – teacher observation • Manufactured Block bot • Block Bots Evaluation