

# KS3 Curriculum Map

## Design and Technology

Researching

Designing

Planning

Making

Evaluating

Year / Term	Unit of work	Core knowledge	Key concepts / skills
<p style="text-align: center;">Year 7 Autumn term 1+2 (7 Lessons)</p>	<p>Introduction to D&amp;T (One Lesson)</p>	<p>What is Design and Technology? How do I log on to:</p> <ul style="list-style-type: none"> <li>• My account</li> <li>• Show My Homework</li> <li>• 2d Design</li> <li>• Shared document area</li> </ul> <p>How do I make files and folders in my user area?</p>	
	<p>Drawing and Presentation Skills</p>	<p>Develop skills in different drawing disciplines.</p> <ul style="list-style-type: none"> <li>• Single Point Perspective (Train)</li> <li>• Two Point Perspective (Radio)</li> <li>• Homework Perspective drawing</li> <li>• Rendering (Blocks)</li> <li>• 2d Design (Tutorial)</li> <li>• Orthographic Projection (3<sup>rd</sup> angle)</li> <li>• Isometric Projection</li> </ul> <p>Assessment – Drawing techniques</p>	<p style="text-align: center;">Designing Evaluating</p>

Year / Term	Unit of work	Core knowledge	Key concepts / skills
<p><b>Year 7 Spring</b> <b>term 1+2</b> <b>(6 Lessons)</b></p>	<p>Roller Ball toy</p>	<p>Design a wooden toy suitable for a target audience.</p> <ul style="list-style-type: none"> <li>● Research including existing toys using ACCESS FM</li> <li>● Design Brief and Specification using ACCESS FM</li> <li>● Generating Design ideas in colour</li> <li>● 2d Design image for game base</li> </ul> <p>Assessment – Research and Designing</p>	<p><b>Research</b> <b>Designing</b></p>
		<p>Planning and manufacturing wooden toys.</p> <ul style="list-style-type: none"> <li>● Working drawing for toy sides (Orthographic)</li> <li>● Marking out and cutting wooden sides</li> <li>● Drilling holes in score zones</li> <li>● <b>Homework Pillar Drill</b></li> </ul>	<p><b>Planning</b> <b>Making</b></p>

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<p style="text-align: center;">Year 7 Summer term 1+2 (6 Lessons)</p>	Roller Ball toy	Assembly and finishing of a wooden toy. Assembly of wooden toy (Sides) <ul style="list-style-type: none"> <li>● Assembly of wooden toy (Acrylic top)</li> <li>● Finishing woods and plastics</li> <li>● Homework Woods</li> </ul>	<p style="text-align: center;">Planning Making</p>
		Evaluating products against a design brief and specification. <ul style="list-style-type: none"> <li>● Use ACCESS FM to evaluate final toy design</li> </ul> <p style="text-align: center;">Assessment – Written evaluation</p>	<p style="text-align: center;">Evaluating</p>
	Roller Ball Toy packaging	Design and manufacturing of toy packaging. <ul style="list-style-type: none"> <li>● Research product packaging</li> <li>● Design suitable packaging for wooden toy</li> <li>● Manufacture of toy packaging</li> </ul>	<p style="text-align: center;">Research Evaluating Designing Making</p>

Year / Term	Unit of work	Core knowledge	Key concepts / skills
<p style="text-align: center;">Year 8</p> <p style="text-align: center;">Autumn</p> <p style="text-align: center;">term 1+2</p> <p style="text-align: center;">(7 Lessons)</p>	<p>Money Box</p>	<p>Design a wooden money box suitable for a target audience.</p> <ul style="list-style-type: none"> <li>● Research including existing products using ACCESS FM</li> <li>● Write a Design Brief and Specification using ACCESS FM</li> <li>● Generating Design ideas in colour with rendering</li> <li>● 2d Design image for the money box background</li> </ul>	<p><b>Research</b></p> <p><b>Designing</b></p>
		<p>Planning and manufacturing wooden money box.</p> <ul style="list-style-type: none"> <li>● Working drawing for the money box sides (Orthographic)</li> <li>● Marking out and cutting wooden sides</li> <li>● <b>Homework Joining and finishing woods</b></li> <li>● Marking out and cutting finger joint slots using a mallet and chisel</li> </ul> <p>Assessment – Practical (Marking and Cutting)</p>	<p><b>Planning</b></p> <p><b>Making</b></p>

Year / Term	Unit of work	Core knowledge	Key concepts / skills
<p><b>Year 8 Spring</b>  <b>term 1+2</b>  <b>(6 Lessons)</b></p>	<p>Money Box</p>	<p>Assembly and finishing of a wooden money box.</p> <ul style="list-style-type: none"> <li>● Assembly of wooden money box (Sides)</li> <li>● Assembly of wooden money box back base and top including money slot</li>   <li>● Finishing woods and plastics</li> </ul>	<p><b>Planning</b></p> <p><b>Making</b></p>
		<p>Evaluating products against a design brief and specification.</p> <ul style="list-style-type: none"> <li>● Use ACCESS FM to evaluate final money box against design specification and user needs</li> </ul> <p>Assessment – Written evaluation</p>	<p><b>Evaluating</b></p>

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<p style="text-align: center;">Year 8</p> <p style="text-align: center;">Summer</p> <p style="text-align: center;">term 1+2</p> <p style="text-align: center;">(6 Lessons)</p>	Characterised Letters Postcard	<p>Research into typography, graphics and logo design.</p> <ul style="list-style-type: none"> <li>● Research in to logo design, branding and graphic typography</li> <li>● Design your own graphical typeface for a range of letters</li> <li>● Homework Alphabet Design</li> <li>● Design ideas for a postcard using typography design</li> </ul> <p>Assessment – Researching Skills</p>	<p><b>Research</b></p> <p><b>Designing</b></p>
		<p>Development of design ideas and CAD presentation</p> <ul style="list-style-type: none"> <li>● 2d Design final idea for printing</li> <li>● Message, Address and Stamp position drawn</li> <li>● Lamination for protection</li> </ul>	<p><b>Planning</b></p> <p><b>Making</b></p>
		<p>Evaluating your postcard against typography research and design ideas.</p> <ul style="list-style-type: none"> <li>● Peer assessment through class discussion</li> <li>● Written evaluation on how designs developed though experimentation</li> </ul>	<p><b>Evaluating</b></p>

Year / Term	Unit of work	Core knowledge	Key concepts / skills
<p style="text-align: center;">Year 9 Autumn term 1+2 (7 Lessons)</p>	<p>Analogue Clock</p>	<p>To create clock designs for a selected target audience.</p> <ul style="list-style-type: none"> <li>● Create design brief for a themed clock</li> <li>● Produce a specification for a new clock design</li> <li>● Use market research to develop designs</li> <li>● Materials research</li> <li>● Homework Types of Plastics</li> <li>● Developing ideas based on research.</li> </ul>	<p style="text-align: center;"><b>Research</b> <b>Designing</b> <b>Evaluating</b></p>
		<p>Produce a prototype clock using CAM or traditional methods.</p> <ul style="list-style-type: none"> <li>● Create CAD files for use in that laser cutter</li> <li>● Cut and finish materials for clock assembly</li> </ul> <p>Assessment – Practical (Quality/Accuracy of the finished product)</p>	<p style="text-align: center;"><b>Evaluating</b> <b>Planning</b> <b>Making</b></p>



Year / Term	Unit of work	Core knowledge	Key concepts / skills
Year 9 Spring term 1+2 (6 Lessons)	Analogue Clock	Manufacturing a product <ul style="list-style-type: none"> <li>● Assemble clock and perform quality checks</li> <li>● Evaluate final product against design specification and brief</li> </ul> <i>Assessment – Designing for a client</i>	<b>Evaluating</b>  <b>Making</b>
	Flashing light phone stand	Developing an understanding of sound and Resonance. <ul style="list-style-type: none"> <li>● Research in to electronic components</li> <li>● Produce a design brief and specification</li> <li>● Create initial design ideas for developing</li> </ul>	<b>Research</b>  <b>Designing</b>

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<p>Year 9</p> <p>Summer</p> <p>term 1+2</p> <p>(6 Lessons)</p>	<p>Flashing light phone stand</p>	<p>Development of design ideas.</p> <ul style="list-style-type: none"> <li>● Develop final design in 2d Design</li> <li>● Orthographic drawing on 2d Design</li> <li>● Cutting list of materials</li> </ul>	<p><b>Planning</b></p>
		<p>Manufacturing the final design.</p> <ul style="list-style-type: none"> <li>● Soldering electronic components</li> <li>● Marking out and cutting the parts for the phone stand</li> <li>● Assembly of the parts</li> <li>● Finishing of the product</li> </ul> <p>Assessment – Knowledge assessment paper 1</p>	<p><b>Making</b></p>
		<p>Evaluation of the final product.</p> <ul style="list-style-type: none"> <li>● Testing and evaluation of the phone stand</li> <li>● Evaluation against the design brief and specification</li> <li>● Peer assessment to support improvements</li> <li>● Modification areas to better suit user requirements</li> </ul>	<p><b>Evaluating</b></p> <p><b>Designing</b></p>