



## Design and Technology Curriculum Plan Overview

<b>Year 9 Level Ladders</b>			
<b>Term</b>	<b>Topic</b>	<b>Learning</b>	<b>How can parents' best support</b>
<b>Autumn 1</b>	<b>Mobile phone stand</b>  <b>3D design</b>  <b>Woodwork</b>  <b>Textiles</b>	<ul style="list-style-type: none"> <li>- Woodwork</li> <li>- Measuring</li> <li>- Sawing and drilling</li> <li>- Health and Safety</li> <li>- Careers in woodwork</li> <li>- Textile design</li> <li>- Problem solving</li> <li>- Attachments</li> <li>- Designing for a purpose</li> <li>- Evaluation of design</li> </ul>	<p>Help your child to understand specialist vocabulary related to this topic.</p> <p>Research and discuss different jobs in using woodwork and machine skills,</p> <p>Practise measuring and cutting at home. This does not need to be with a saw but can be cutting a piece of toast.</p> <p>Discuss how problem solving and not getting things right the first time is a part of the design process.</p>
<b>Assessment:</b>			
<b>Autumn 2</b>	<b>Identifying and Solving Design Problems</b>	<ul style="list-style-type: none"> <li>- Problem solving</li> <li>- Designing to a brief</li> <li>- Designing for a purpose</li> <li>- Evaluating designs</li> <li>- Careers in design and technology</li> <li>- Designing for real life situations</li> <li>- Health and Safety</li> <li>- Independent thinking</li> </ul>	<p>Help your child to understand specialist vocabulary related to this topic.</p> <p>Research careers in design and technology.</p> <p>Discuss with your child different products available in the market and how they could change them to make them better - mobiles of the future.</p> <p>Discuss how problem solving and not getting things right the first time is a part of the design process.</p>
<b>Assessment:</b>			
<b>Spring 1</b>	<b>Textiles - Batik</b>	<ul style="list-style-type: none"> <li>- What is batik?</li> <li>- Textile and fabric design.</li> <li>- Batik processes.</li> <li>- Health and Safety</li> <li>- Designing to a brief</li> <li>- Designing for a purpose</li> <li>- Evaluation of design work.</li> </ul>	<p>Help your child to understand specialist vocabulary related to this topic.</p> <p>Research batik and different ways to create batik pattern work.</p> <p>Experiment with different processes at home using flour and water.</p> <p>Discuss how problem solving and not getting things right the first time is a part of the design process..</p>

<b>Assessment:</b>			
<b>Spring 2</b>	<b>CAD and CAM's</b> <b>Toy Design</b>	<ul style="list-style-type: none"> <li>- Independent thinking</li> <li>- What are CAD and CAM's?</li> <li>- How are CAM's used in design and technology?</li> <li>- Design a toy using a CAM</li> <li>- Evaluation of design.</li> <li>- Health and Safety</li> </ul>	<p>Help your child to understand specialist vocabulary related to this topic.</p> <p>Research CAD and CAM's in design and technology and how they are used in different toy designs. Discuss how they work.</p> <p>Discuss how problem solving and not getting things right the first time is a part of the design process..</p>
<b>Assessment:</b>			
<b>Summer 1</b>	<b>STEM activities</b>	<ul style="list-style-type: none"> <li>- Independent thinking</li> <li>- Problem solving</li> <li>- Working as part of a group</li> <li>- Meeting a design brief</li> <li>- Links to maths and science through design work.</li> <li>- Health and Safety</li> </ul>	<p>Help your child to understand specialist vocabulary related to this topic.</p> <p>Discuss with your child the importance of working in a group to solve problems and how listening is the key part to working with others.</p> <p>Discuss how problem solving and not getting things right the first time is a part of the design process.</p>
<b>Assessment:</b>			
<b>Summer 2</b>	<b>Resistant Materials</b> <b>Clock Design</b>	<ul style="list-style-type: none"> <li>- What are resistant materials?</li> <li>- How are resistant materials used in design and technology.</li> <li>- Designing to a brief</li> <li>- Designing for a purpose</li> <li>- Independent thinking.</li> <li>- Problem solving</li> <li>- Health and Safety.</li> <li>- Evaluating designs.</li> </ul>	<p>Help your child to understand specialist vocabulary related to this topic.</p> <p>Research resistant materials that are used for design and technology. Discuss items in your home that are made from resistant materials.</p> <p>Discuss how problem solving and not getting things right the first time is a part of the design process.</p>