
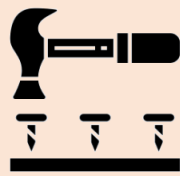





Design Technology Subject Concepts:

Connecting to the 'bigger picture' through our key concepts

	<h3>Design</h3>	<p>By the time children finish Year 6, they will be able to research and develop their own creative ideas for products, considering purpose, function, and user needs. They will produce detailed design plans, sketches, and prototypes, using annotated drawings, models, and computer-aided design (CAD) to communicate their ideas clearly. They will also explore how to incorporate sustainability and innovative problem-solving into their designs.</p>
	<h3>Make</h3>	<p>By the time children finish Year 6, they will be able to select and use a wide range of tools, materials, and techniques with increasing precision to construct their designs. They will develop practical skills in cutting, shaping, joining, and finishing materials such as wood, fabric, and plastic. They will also learn how to use mechanical and electrical components to enhance their products, ensuring they are functional, durable, and well-crafted.</p>
	<h3>Evaluate</h3>	<p>By the time children finish Year 6, they will be able to critically assess their own work and that of others, identifying strengths and areas for improvement. They will learn to test and refine their products against design criteria, considering user feedback and functionality. By exploring and evaluating existing products, they will develop an understanding of how design influences daily life and industry.</p>
	<h3>Technical Knowledge</h3>	<p>By the time children finish Year 6, they will be able to gain an understanding of key mechanical and electrical systems, including gears, pulleys, circuits, and structures, and how these can be applied in their projects. They will learn about different materials and their properties, as well as how forces such as tension and compression affect structures. They will also explore how computer programming can be integrated into design through simple coding and control systems.</p>
	<h3>Cooking and Nutrition</h3>	<p>By the time children finish Year 6, they will be able to develop a strong understanding of nutrition, food groups, and how to prepare balanced meals. They will learn practical cooking skills, including using a variety of ingredients and cooking techniques safely and hygienically. They will also explore where food comes from, how it is grown and processed, and the importance of seasonality and sustainability in food choices.</p>