

Year 1 Autumn

<p>Design NC LOs</p>	<p><b>Design:</b></p> <ul style="list-style-type: none"> <li>design purposeful, functional, appealing products for themselves and other users based on design criteria</li> <li>generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology</li> </ul> <p><b>Make:</b></p> <ul style="list-style-type: none"> <li>select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]</li> <li>select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics</li> </ul> <p><b>Evaluate:</b></p> <ul style="list-style-type: none"> <li>explore and evaluate a range of existing products</li> <li>evaluate their ideas and products against design criteria</li> </ul> <p><b>Technical knowledge:</b></p> <ul style="list-style-type: none"> <li>build structures, exploring how they can be made stronger, stiffer and more stable</li> <li>explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products</li> </ul> <p><b>Cooking and Nutrition:</b></p> <ul style="list-style-type: none"> <li>use the basic principles of a healthy and varied diet to prepare dishes</li> <li>understand where food comes from.</li> </ul>		
<p>Topic</p>	<p>We can be Heroes!</p>	<p>Knowledge organiser</p>	<p>1.1 What is Design and Technology 1.2 Structures</p>
<p>Scenario</p>	<p>The superheroes are tired of landing on buildings, can we create a structure that is strong and stable for them to land on?</p>		
<p>Concepts:</p>	<p>Design Inspiration, Design Process &amp; Technical Knowledge</p>	<p>Resources</p>	<p>art straws, plasticine, glue, paper, tape, newspaper</p>
<p>Vocabulary</p>	<p>structure, nature, manufactured, protect, span, balanced, centre of gravity, stable, free standing, anchor, brace, base, rigid, properties, construct</p>		
<p>Unit Development</p>	<p>Lesson 1: What is DT (pg. 31, 36)</p>		<p>LO: To understand the importance of design technology.</p>
	<p>Lesson 2: Structure Stability (pg. 35-36)</p>		<p>LO: To recognise and describe a range of structure.</p>
	<p>Lesson 3: Structure POP stability (pg39)</p>		<p>LO: To construct a basic structure and explore stability</p>
	<p>Lesson 4: Structure POP strength (40-41)</p>		<p>LO: To explore how structures can be strengthened.</p>