

Collingwood Primary - Whole School DT Overview

	Autumn	Spring	Summer	Other opportunities
Year 1	<p><u>Wonderful World</u> Materials - selecting appropriate materials to build houses, exploring structure from around the world.</p>	<p><u>Space</u> Mechanical systems - sliders and levers Explore slider and lever mechanisms and the movement they output, to design, make and evaluate a space toy.</p>	<p><u>Beside the Seaside</u> Textiles - Explore colour and decorating techniques such as dyeing to make an item of summer clothing.</p>	<p>Food and nutrition - preparing fruit and vegetables Fruit salad Salad Understanding where food comes from</p>
Year 2	<p><u>How do we become our own hero?</u> Textiles - Learning how to use a running stitch, ready to design, make and decorate a Superhero cape and a Christmas stocking.</p>	<p><u>Frozen World</u> Mechanical systems - wheels and axles Learn about the key parts of a wheeled vehicle to develop an understanding of how wheels and axles work. Design and make a moving snow vehicle.</p>	<p><u>Turrets and Tiaras</u> Materials and construction - Explore stability and methods to strengthen structure. Design, make and evaluate a catapult, using some elements of drilling and nailing.</p>	<p>Food and nutrition - Bread Soup Eatwell guide</p>
Year 3	<p><u>Awesome Egyptians</u> Materials - Designing, making, evaluating and improving an Egyptian sarcophagus and Diya lamps for Diwali.</p>	<p><u>Extreme Earth</u> Mechanics - using pulleys and levers with Lego WeDo.</p>	<p><u>Stone Age</u> Construction - Exploring materials that can be used to strengthen models with a range of joining techniques to make a woolly mammoth and a model of StoneHenge.</p>	<p>Food and nutrition - preparing and cooking healthy meals</p>
Year 4	<p><u>Save our Planet</u> Textiles - measure and cut material, then use a cross stitch and back stitch to make a scarf.</p>	<p><u>Pride of Place</u> Construction - Look at existing bridges within the North East and use these as inspiration to construct a bridge. Use appropriate strengthening techniques.</p>	<p><u>The Romans</u> Materials - cutting and measuring materials accurately, joining, shaping and refining those materials to create Roman shields and models of Hadrian's wall.</p>	<p>Food and nutrition - Cous cous Healthy eating</p>
Year 5	<p><u>Myths, Mystery and Magic - Ancient Greeks</u></p>	<p><u>Extreme Explorers</u> Materials - Designing a space vehicle and satellite with the user in mind, making</p>	<p><u>Coastal Raiders</u> Construction - Designing and constructing using a range of techniques such as cutting, drilling,</p>	<p>Food and nutrition - Refining recipes Fish</p>

	<p>Computing - Use cross sectional diagrams and computer aided design (CAD) to represent designs (Greek Amphitheatres, Colosseums)</p>	<p>prototypes and exploring and evaluating finishes.</p>	<p>filing, glueing and sanding to make Viking Longboats.</p>	
<p>Year 6</p>	<p>Crime and Punishment Materials -Combining elements of design from inspirational designers throughout history. Using a variety of materials to refine and include high finishes.</p>	<p>The Titanic Electronics - create a circuit with working components such as an alarm system that could be used on the Titanic.</p>	<p>South America Computing (MicroBit) Textiles - use qualities of materials for purpose and select from a range of stitching and sewing techniques to make festival clothing.</p>	<p>Food and nutrition - Columbia stew</p>