



Herne Bay Junior School Design and Technology Curriculum Coverage Map

	Autumn	Spring	Summer
Year 3	<p>Cook Well, Eat Well</p> <p>Children learn about food groups and the Eatwell guide. They learn about methods of cooking and explore these by cooking potatoes and ratatouille. The children choose and make a taco filling according to specific design criteria.</p>	<p>Making It Move</p> <p>Children learn about cam mechanisms. They experiment with different shaped cams before designing, making and evaluating a child's automaton toy.</p>	<p>Greenhouse</p> <p>Children learn about the purpose, structure and design features of greenhouses, and compares the work of two significant greenhouse designers. They learn techniques to strengthen structures and use tools safely. They use their learning to design and construct a mini greenhouse.</p>
Year 4	<p>Tomb Builders</p> <p>Children learn about simple machines, including wheels, axles, inclined planes, pulleys and levers, exploring how they helped ancient builders to lift and move heavy loads.</p>	<p>Functional and Fancy Fabrics</p> <p>Children learn about home furnishings and the significant designer William Morris. They learn techniques for decorating fabric, including block printing, hemming and embroidery and use them to design and make a fabric sample.</p>	<p>Fresh Food, Good Food</p> <p>Children learn about food decay and preservation. They discover key inventions in food preservation and packaging, then make examples. The children prepare, package and evaluate a healthy snack.</p>
Year 5	<p>Moving Mechanisms</p> <p>Children learn about pneumatic systems. They experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.</p>	<p>Eat the Seasons</p> <p>Children learn about the meaning and benefits of seasonal eating, including food preparation and cooking techniques.</p>	<p>Architecture</p> <p>Children learn about how architectural style and technology has developed over time and then use this knowledge to design a building with specific features.</p>
Year 6	<p>Make Do and Mend</p> <p>Children learn a range of simple sewing stitches, including ways of recycling and repurposing old clothes and materials.</p>	<p>Food for Life</p> <p>Children learn about processed food and healthy food choices. They make bread and pasta sauces and learn about the benefits of whole foods. They plan and make meals as part of a healthy daily menu, and evaluate their completed products.</p>	<p>Engineer</p> <p>Children learn about remarkable engineers and significant bridges, learning to identify features, such as beams, arches and trusses. They complete a bridge-building engineering challenge to create a bridge prototype.</p>