

	Autumn Term	Spring Term	Summer Term
Year 1	<p>Cycle 1b – Shade and Shelter This project teaches children about the purpose of shelters and their materials. They name and describe shelters and design and make shelter prototypes. Children then design and build a play den as a group and evaluate their completed product.</p>	<p>Cycle 2b – Taxi This project teaches children about wheels, axles and chassis and how they work together to make a vehicle move.</p>	<p>Cycle 3b – Chop, Slice and Mash This project teaches children about sources of food and the preparatory skills of peeling, tearing, slicing, chopping, mashing and grating. They use this knowledge and techniques to design and make a supermarket sandwich according to specific design criteria.</p>
Year 2	<p>Cycle 1a – Remarkable Recipes This project teaches children about sources of food and tools used for food preparation. They also discover why some foods are cooked and learn to read a simple recipe. The children choose and make a new school meal that fulfils specific design criteria.</p>	<p>Cycle 2a – Beach Hut This project teaches children about making and strengthening structures, including different ways of joining materials.</p>	<p>Cycle 3a – Cut, Stitch and Join This project teaches children about fabric home products and the significant British brand Cath Kidston. They learn about sewing patterns and using a running stitch and embellishments before making a sewn bag tag.</p>
Year 3	<p>Cycle 1b – Cook Food, Eatwell This project teaches children 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>Cycle 2b – Making It Move This project teaches children 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>	<p>Cycle 3b - Greenhouse This project teaches children about cam mechanisms. They experiment with different shaped cams before designing, making and evaluating a child's automaton toy.</p>
Year 4	<p>Cycle 1a – Fresh Food, Good Food This project teaches children 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>	<p>Cycle 2a – Functional and Fancy Fabrics This project teaches children 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>Cycle 3a – Tomb Builders This project teaches children about simple machines, including wheels, axles, inclined planes, pulleys and levers, exploring how they helped ancient builders to lift and move heavy loads.</p>
Year 5	<p>Cycle 1b – Moving Mechanisms This project teaches children about pneumatic systems. They experiment with pneumatics before designing, making and evaluating a pneumatic machine that performs a useful function.</p>	<p>Cycle 2b – Eat the Seasons This project teaches children about the meaning and benefits of seasonal eating, including food preparation and cooking techniques.</p>	<p>Cycle 3b - Architecture This project teaches children 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>Cycle 1a – Food for Life! This project teaches children 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>Cycle 2a – Engineer This project teaches children 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>	<p>Cycle 3a – Make Do and Mend! This project teaches children a range of simple sewing stitches, including ways of recycling and repurposing old clothes and materials.</p>