

Design and technology long-term overview

	Autumn	Spring	Summer
Year 3	 Cook Well, 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.	 Making It Move This project teaches children about cam mechanisms. They experiment with different shaped cams before designing, making and evaluating a child's automaton toy.	 Greenhouse 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.
Year 4	 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.	 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.	 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.
Year 5	 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.	 Eat the Seasons This project teaches children about the meaning and benefits of seasonal eating, including food preparation and cooking techniques.	 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.
Year 6	 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.	 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.	 Make Do and Mend This project teaches children a range of simple sewing stitches, including ways of recycling and repurposing old clothes and materials.