

DESIGN AND TECHNOLOGY WHOLE SCHOOL OVERVIEW Y1-6

	Autumn	Spring	Summer
Year 1	<p style="text-align: center;"><u>EAT MORE FRUITS AND VEGETABLES</u></p> <p>In this unit children will explore a range of fruits and vegetables and learn how to make healthy choices for a balanced diet. They will discover how to prepare them safely before designing and making their own salad, soup or smoothie.</p>	<p style="text-align: center;"><u>MOVING MINIBEASTS</u></p> <p>In this unit children will explore how to construct a sliding mechanism, a lever and pivot mechanism, and finally a wheel mechanism, before applying their knowledge and understanding to design and make a moving mini-beast picture for an author who is writing a book about mini-beasts!</p>	<p style="text-align: center;"><u>SUPER STRUCTURES</u></p> <p>In this unit children will explore a range of different structures looking at the features that make them stable or unstable. The children will then plan, make a review their own structures.</p>
Year 2	<p style="text-align: center;"><u>PUPPETS</u></p> <p>In this unit children will find out how to work with fabric to create their own puppets. Children will then develop and refine their sewing skills before designing, creating and evaluating their own glove puppets.</p>	<p style="text-align: center;"><u>VEHICLES- FIRE ENGINES</u></p> <p>In this unit children will investigate a variety of different vehicles before designing, making and evaluating their own vehicle. They will learn all about wheels, axles and chassis and how they are combined to make the framework of the vehicle, as well as how to create an eye-catching body.</p>	<p style="text-align: center;"><u>PERFECT PIZZAS</u></p> <p>In this unit the children will develop their understanding of healthy eating as they explore pizzas, discovering what a variety of toppings and bases look, taste and feel like. They will then design and make their own pizza to meet a design brief and evaluate it based on the criteria.</p>
Year3/4 – A	<p style="text-align: center;"><u>STORYBOOKS</u></p> <p>In this unit children will explore the moving parts in storybooks and learn how to recreate some of these using a variety of tools and techniques before designing, creating and evaluating their very own moving storybooks.</p>	<p style="text-align: center;"><u>BRITISH INVENTORS</u></p> <p>This unit focuses on some important Victorian inventions and more recent 20th century inventions created by British inventors and scientists and how these inventions have changed the lives of the people who use them.</p>	<p style="text-align: center;"><u>LIGHT UP SIGNS</u></p> <p>In this unit children will use woodworking tools and materials to make and decorative light box with illuminated words or letters.</p>
Year 3/4 – B	<p style="text-align: center;"><u>SEASONAL STOCKINGS</u></p> <p>In this unit children will develop and use their knowledge of, and skills in, a variety of sewing techniques for joining and decorating fabric to design and make their very own Christmas stocking!</p>	<p style="text-align: center;"><u>MAKING MINI-GREENHOUSES</u></p> <p>In this unit children will find out the purpose of a greenhouse and how it works. After looking at stability and materials children will apply this knowledge and understanding to design, make and evaluate their very own mini greenhouse!</p>	<p style="text-align: center;"><u>SEASONAL FOOD</u></p> <p>In this unit the children will find out about the seasonality of food products .Children will learn to prepare some seasonal healthy dishes using a variety of different cooking methods.</p>
Year 5/6 – A	<p style="text-align: center;"><u>BUILDING BRIDGES</u></p> <p>In this unit, children will explore ways in which forces act on bridge structures, and their construction. Working as part of a team the children will design, make and evaluate a variety of bridge designs.</p>	<p style="text-align: center;"><u>CHINESE INVENTIONS</u></p> <p>In this unit children will explore the innovative culture of ancient China and discover the inventions that have helped shape the world, including paper, the compass, gunpowder and the moveable-type printing press.</p>	<p style="text-align: center;"><u>FASHION AND TEXTILES</u></p> <p>In this unit children will look at how textiles are used in the fashion industry, then challenge children to design, cut, stitch and decorate a stylish drawstring bag.</p>
Year 5/6 - B	<p style="text-align: center;"><u>PROGRAMMING PIONEERS</u></p> <p>In this unit children will focus on designing, developing, testing and prototyping computer-controlled electronic systems for homes such as motion-sensor activated alarms and door buzzers.</p>	<p style="text-align: center;"><u>BIRD HOUSE BUILDERS</u></p> <p>In this unit children will learn about bird houses and why they are constructed for birds in our environment. They will get the chance to research common birds and design a bird house suitable for a bird to nest in.</p>	<p style="text-align: center;"><u>BURGERS</u></p> <p>In this unit children will have chance to practise and improve their cooking skills. Children will design, cook, taste and evaluate their own burgers and burger sauces.</p>