

Sycamore	Autumn	Spring	Summer
Technical knowledge	Textiles	Food and Nutrition	Mechanisms
Year A	<p>Design, make and evaluate a Christmas decoration.</p> <p>In this unit, students will explore the world of textiles by designing, making, and evaluating their own Christmas decorations. They will investigate current Christmas decorations, learn basic sewing techniques such as running stitch, and work with felt to create their designs. With support, they will also use glue to add additional elements to their decorations.</p>	<p>Learn about where our food comes from. Design, make and evaluate a fruit salad.</p> <p>In this project, students will embark on a delicious journey exploring fruits, from the farm to the table. They will taste popular and more unusual fruits, learn where fruits and vegetables come from, and decide which fruits they like and why, considering sweetness and sourness. Students will design their own fruit salad using four different fruits, learn safe chopping techniques, make their fruit salad, eat it, and evaluate it.</p>	<p>Making moving pictures</p> <p>This 'Moving Traditional Tale Pictures' unit gives children opportunities to develop their understanding of mechanisms. Children listen to and role play different Traditional Tales and then learn how sections of the stories can be made into a moving picture. Following instructions on how to make different types of mechanisms, such as levers, wheels and sliders, gives children experience and information to draw on when developing their own ideas. They sketch a design based on their ideas and then create their moving picture centred on the story of 'The Three Billy Goats Gruff.' Children evaluate their finished product.</p>
Technical knowledge	Food and Nutrition	Mechanisms	Structures
Year B	<p>Design, make and evaluate a Christmas biscuit.</p> <p>In this project, students will embark on a delightful journey of baking and creativity as they design and make their own Christmas biscuits. They will begin by researching and tasting current biscuit products, evaluating these, and discussing what makes them suitable for the festive season. Students will then design their own Christmas biscuits, considering shapes, flavours, and decorations. They will learn about basic baking techniques, including mixing, rolling, cutting, and baking. Finally, they will decorate their biscuits with icing and edible decorations, preparing them for sale at the Christmas fair</p>	<p>Let's go fly a kite</p> <p>Design, make and evaluate a kite.</p> <p>This Let's Go Fly a Kite unit gives children opportunities to develop their understanding of frame structures and how they can be strengthened and stiffened. Children will discover information about a key event involving a kite that helped shape the world. Children will gain knowledge and understanding about the parts and shapes of kites. This will help them when designing and making their own kites. Finally, children will test and evaluate their kites against design criteria they have created.</p>	<p>Environmental design</p>

Maple	Autumn	Spring	Summer
Technical knowledge	Textiles	Food and Nutrition	Mechanisms

Year A	<p>Design, make and evaluate a Christmas decoration.</p> <p>In this project, students will explore the world of textiles by designing, making, and evaluating their own Christmas decorations. They will begin by researching current Christmas decoration trends, then move on to designing their own decorations using paper and pencil. With growing independence in needlework, they will learn and apply basic sewing techniques such as running stitch and backstitch, working with a variety of fabrics. As their skills develop, they will incorporate further decoration techniques such as sewing beads, buttons, and sequins, and experimenting with different threads</p>	<p>Learn about seasonality. Design, make and evaluate bread.</p> <p>This Great Bread Bake Off unit will teach your class about working with food. Children will gain an insight into the history of bread production, then investigate and evaluate existing bread products. They will create design criteria which will be referred to when designing, making and evaluating their own bread product. Children use a range of skills and techniques using simple kitchen tools and measuring equipment, they will learn how to knead dough correctly and the technique of proving bread.</p>	<p>Mechanical Posters – Linkages and Levers</p> <p>This 'Mechanical Posters' unit gives children opportunities to develop their understanding of mechanical systems. Following instructions on how to make different types of lever and linkage mechanisms gives children experience and information to draw on when developing their own ideas. They sketch a design based on their ideas, make a prototype, and then create their 'Lever and Linkage Poster' using the context of recycling. Finally, children will evaluate their finished product.</p>
Technical knowledge	Food and Nutrition	Mechanisms	Structures
Year B	<p>Design Christmas chocolates – including packaging.</p> <p>In this project, students will explore the world of chocolate making and packaging design. They will begin by researching and tasting current chocolate products, evaluating these, and discussing what makes them suitable for the festive season. Through this, they will learn about food production, moulding, and the design process. Students will then design their own Christmas chocolates, considering flavours, shapes, and packaging. They will learn about the chocolate making process, including melting, moulding, and decorating. If time, they will design and create festive packaging for their chocolates, preparing them for sale at the Christmas fair.</p>	<p>Battery operated lights</p> <p>This 'Battery Operated Lights' unit gives children opportunities to enhance their knowledge and understanding of electrical systems. In this unit children will develop understanding about series and parallel circuits and different types switches. They will then be given the chance to apply their knowledge about electric circuits in a purposeful way by designing and making a battery operated light which will be controlled by a homemade switch. Children will decide upon the design criteria for the light by considering who will use it, where it will be used and what for. Finally, children will complete a detailed evaluation of their final product.</p>	<p>Environmental design</p>

