

Design and Technology – Composite Knowledge

	EYFS	YEAR ONE	YEAR TWO	YEAR THREE	YEAR FOUR	YEAR FIVE	YEAR SIX
Autumn	<p>Can we explore and use a range of materials, tools and techniques safely?</p> <p>Can we experiment with colour, design, texture, form and function?</p> <p>Why is it important to make healthy food choices? Where do vegetables come from?</p>	<p><u>Mechanisms - Sliders and Levers</u></p> <p>What is a slider?</p> <p>What is a lever?</p> <p>Which part of the mechanism is a pivot?</p>	<p><u>Textiles - Templates and Joining</u></p> <p>What is a template?</p> <p>What is a joining technique?</p>	<p><u>Structures - Shell structures</u></p> <p>How can we construct strong, stiff shell structures?</p> <p>How can we use a net to effectively make a 3D shape?</p>	<p><u>Electrical Systems - Simple Programming and Control</u></p> <p>What is a program?</p> <p>How can we create a simple program?</p> <p>How can we create a program with a control aspect?</p>	<p><u>Structures - Frame Structures</u></p> <p>What is a frame structure?</p> <p>How can we join our frame structure?</p> <p>What is triangulation and how does it help?</p>	<p><u>Food - Celebrating culture and seasonality</u></p> <p>Design, make and evaluate a cereal snack for a consumer for _____ (purpose)</p>
Spring		<p><u>Structures - Freestanding structures</u></p> <p>What is a freestanding structure?</p> <p>How can we stop freestanding structures from falling over?</p> <p>How can we make a structure stronger, stiffer and more stable?</p>	<p><u>Food - Preparing fruit and veg</u></p> <p>What is a balanced diet?</p> <p>Why is it good to eat a balanced diet?</p> <p>What do we need to do before we can eat fruit and veg?</p>	<p><u>Textiles - 2D Shape to 3D product</u></p> <p>How can we securely join two pieces of fabric together?</p> <p>How can we strengthen, stiffen and reinforce existing fabrics?</p>	<p><u>Food - Healthy and Varied diet</u></p> <p>What are culture and seasonality?</p> <p>What different techniques can we use?</p> <p>How can we understand the nutritional value of a product?</p> <p>What functions do different utensils have?</p>	<p><u>Textiles - Combining different fabric shapes</u></p> <p>How can we combine different fabric shapes?</p> <p>What impact have different designers had on fabrics and products?</p> <p>How can we strengthen/stiffen a product?</p>	
Summer		<p><u>Food - Preparing fruit and veg</u></p>	<p><u>Mechanisms - Wheels and axles</u></p> <p>What is an axle?</p> <p>What is a chassis?</p>	<p><u>Food - Healthy and varied diet</u></p> <p>What equipment and resources do we need to use to combine and prepare food?</p>	<p><u>Mechanical systems – Levers and linkages</u></p> <p>Which part of the card is the linkage/lever?</p>	<p><u>Electrical Systems - Monitoring and control</u></p> <p>How to design, make and evaluate a motion sensor light to</p>	<p><u>Mechanical Systems - Pulleys or gears</u></p> <p>How do gears help to change the speed or direction of</p>

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		<p>How many different types of fruit are available?</p> <p>What vocab can you use to describe the smell, taste and texture of different fruit?</p> <p>Why do we need fruit and veg to have a balanced diet?</p> <p>How do we prepare food in a safe way?</p>	<p>How do wheels and axles work together to help things move?</p>	<p>How can we prepare food hygienically?</p> <p>Why do we follow instructions when cooking?</p> <p>How can we prepare food safely?</p>	<p>Which are the fixed pivots and which are the loose pivots?</p>	<p>illuminate for security.</p>	<p>movement of an object?</p> <p>What are the inputs, processes, and outputs for a particular object?</p>
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