

Design and Technology – Composite Knowledge

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

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