



Design Technology Medium Term Planning
Year: 5

Term	Main DT Theme	Sub Questions / Key Knowledge	Subject Specific Vocabulary	Linked Visits in / Visits out	Assessment will be based on a formative approach of children being able to answer the key questions using the knowledge acquired over the half term through a quiz-based approach.
Autumn Term- 	Electrical Systems: Lighthouses	<p>Who invented the lighthouse? Why were they invented? Are all lighthouses the same? What do lighthouses have in common? What is an electrical system? What do we mean by product analysis? What are the different components of a circuit? What happens if there is a break in the circuit? What does 'to investigate' mean?</p> <ul style="list-style-type: none"> • To know the key components used to create a functioning circuit • To know that copper is a conductor and can be used as part of a circuit • To understand that breaks in a circuit will stop it from working • To understand that a series circuit only has one path for the electrical current to flow from positive to negative • To know that we use symbols to represent components in a circuit diagram • To know the names of the components in a basic series circuit: crocodile wires, LED (light-emitting diode), battery holder, battery, cell 	<ul style="list-style-type: none"> • Buzzer • Circuit • Coin cell battery • Component • Conductor • Copper • Design • Design criteria • Function • Innovative • Insulator • LED • Modify • Series circuit • Switch • Target audience • Test • Wire 		


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<p>Spring Term-</p> 	<p>Food: What could be healthier?</p>	<p>Which meat comes from a cow? What do we call the cooking instructions to make a dish? What does a balanced diet consist of? In a recipe, what is the method? What is cross-contamination? Why does a farm need land and water? What do we mean by research? What do we mean by welfare? What is the 'farm to fork' process?</p> <ul style="list-style-type: none"> • To understand where meat comes from - learning that beef is from cattle and how beef is reared and processed, including key welfare issues • To know that I can adapt a recipe to make it healthier by substituting ingredients • To know that I can use a nutritional calculator to see how healthy a food option is • To understand that 'cross-contamination' means that bacteria and germs have been passed onto ready-to-eat foods and it happens when these foods mix with raw meat or unclean objects 	<ul style="list-style-type: none"> • Beef • Cross-contamination • Diet • Ethical issues • Farm • Healthy • Ingredients • Method • Nutrients • Packaging • Reared • Recipe • Research • Substitute • Supermarket • Vegan • Vegetarian • Welfare 		
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<p>Summer Term-</p> 	<p>Mechanical Systems: Making a pop-up book</p>	<p>What is a design brief? What is a list of design criteria? What is a mechanism? What movement do sliders create? What is an input? What is an output? What is a prototype? What is a template? What is an exploded diagram?</p> <ul style="list-style-type: none"> • To know that mechanisms control movement • To understand that mechanisms that can be used to change one kind of motion into another • To understand how to use sliders, pivots and folds to create paper-based mechanisms 	<ul style="list-style-type: none"> • Aesthetic • Computer-aided design (CAD) • Caption • Design • Design brief • Design criteria • Exploded-diagram • Function • Input • Linkage • Mechanism • Motion • Output • Pivot • Prototype • Slider • Structure • Template 		
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