




Design Technology Medium Term Planning
Year: 4

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.
<p>Autumn Term-</p> 	<p>Electrical Systems: Torches</p>	<p>What is electricity? Can you name the components / symbols on a series circuit? What is a conductor? What is an insulator? How many paths do series circuits have? Can you name a portable form of electricity? Can you list some electrical health and safety tips?</p> <ul style="list-style-type: none"> • To understand that electrical conductors are materials which electricity can pass through • To understand that electrical insulators are materials which electricity cannot pass through • To know that a battery contains stored electricity that can be used to power products • To know that an electrical circuit must be complete for electricity to flow • To know that a switch can be used to complete and break an electrical circuit 	<ul style="list-style-type: none"> ● Battery ● Bulb ● Buzzer ● Cell ● Component ● Conductor ● Copper ● Design criteria ● Electrical item ● Electricity ● Electronic item ● Function ● Insulator ● Series circuit ● Switch ● Test ● Torch ● Wire 		
<p>Spring Term-</p> 	<p>Structures: Pavilions</p>	<p>What is a list of design criteria? What is aesthetics? What do you call the material on the outside of structures to add protection or improve its aesthetics? What is a theme? What is a pavilion? What does inspiration mean?</p>	<ul style="list-style-type: none"> ● Aesthetic ● Cladding ● Design criteria ● Evaluation ● Frame structure ● Function ● Inspiration 		

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		<p>What is a products function? What does stable mean? How can you make a structure stronger? How can I improve a tents stability and aesthetics?</p> <ul style="list-style-type: none"> • To understand what a frame structure is • To know that a 'free-standing' structure is one which can stand on its own. • To know that a pavilions is a decorative building or structure for leisure activities • To know that cladding can be applied to structures for different effects. • To know that aesthetics are how a product looks • To know that a product's function means its purpose • To understand that the target audience means the person or group of people a product is designed for • To know that architects consider light, shadow and patterns when designing. 	<ul style="list-style-type: none"> ● Pavilion ● Reinforce ● Stable ● Structure ● Target audience ● Target customer ● Texture ● Theme 		
<p>Summer Term-</p> 	<p>Food: Adapting a recipe</p>	<p>What do we call the cooking instructions to make a dish? When a food is 'in season' what do we mean? In a recipe, what is the method? What do we mean by quantity? Where would you need to put baked biscuits to cool? What must you use to remove hot food from the oven? What do we mean by a budget? What is the technique for combining sugar and butter called? Why do we sieve flour? How could you improve this recipe?</p>	<ul style="list-style-type: none"> ● Adapt ● Budget ● Cooling rack ● Creaming ● Equipment ● Evaluation ● Flavour ● Ingredients ● Method ● Net ● Packaging ● Prototype ● Quantity 		

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		<ul style="list-style-type: none">• To know that the amount of an ingredient in a recipe is known as the 'quantity'• To know that it is important to use oven gloves when removing hot food from an oven• To know the following cooking techniques: sieving, creaming, rubbing method, cooling• To understand the importance of budgeting while planning ingredients for biscuits	<ul style="list-style-type: none">● Recipe● Rubbing● Sieving● Target audience● Unit of measurement● Utilities		
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