

**DESIGN AND TECHNOLOGY AT LAUREL LANE**  
Whole School Overview

	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
<b>Year 1</b>	Textiles: Puppets	Mechanisms: Wheels and axis	Construction: Constructing a windmill Food Technology: Fruit and vegetables
<b>Year 2</b>	Structures: Baby bear's chair	Mechanisms: Fairground wheel	Construction: Making a moving monster
<b>Year 3</b>	Structures: Constructing a castle	Mechanisms: Pneumatic toys	Textiles: Egyptian collars Food Technology: Eating seasonally
<b>Year 4</b>	Electrical systems: Torches	Textiles: Fastenings	Structures: Pavilions Food Technology: Adapting a recipe
<b>Year 5</b>	Textiles: Stuffed toys Food Technology: Adapting a recipe	Mechanical Systems: Pop up books	Structures: Bridges
<b>Year 6</b>	Mechanisms: Mechanical systems	Structures: Playgrounds	Electrical systems Food Technology: Come dine with me



	Autumn Term	Spring Term	Summer Term	Summer Term
Year 1	Textiles Puppets	Mechanism Wheels and Axis	Structures Construction a windmill	Food Technology Smoothies
	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>Using a template to create a design for a puppet.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>Cutting fabric neatly with scissors.</li> <li>Using joining methods to decorate a puppet.</li> <li>Sequencing steps for construction.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>Reflecting on a finished product and comparing to their design.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>To know that a design is a way of planning our idea before we start.</li> <li>To know that threading is putting one material through an object.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>Designing a vehicle that includes wheels, axles and axle holders, that when combined, will allow the wheels to move.</li> <li>Creating clearly labelled drawings that illustrate movement.</li> </ul> <p><u>Make</u></p> <p>Adapting mechanisms, when:</p> <ul style="list-style-type: none"> <li>they do not work as they should.</li> <li>to fit their vehicle design.</li> <li>to improve how they work after testing their vehicle.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>Testing wheel and axle mechanisms, identifying what stops the wheels from turning, and recognising that a wheel needs an axle in order to move.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>To know that wheels need to be round to rotate and move.</li> <li>To understand that for a wheel to</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>Learning the importance of a clear design criteria.</li> <li>Including individual preferences and requirements in a design.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>Making stable structures from card.</li> <li>Following instructions to cut and assemble the supporting structure of a windmill.</li> <li>Making functioning turbines and axles which are assembled into a main supporting structure.</li> <li>Finding the middle of an object.</li> <li>Puncturing holes.</li> <li>Adding weight to structures.</li> <li>Creating supporting structures.</li> <li>Cutting evenly and carefully.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>Evaluating a windmill according to the design criteria, testing whether the structure is strong and stable and altering it if it isn't.</li> <li>Suggest points for improvements.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>Designing smoothie carton packaging by-hand.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>Chopping fruit and vegetables safely to make a smoothie.</li> <li>Juicing fruits safely to make a smoothie</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>Tasting and evaluating different food combinations.</li> <li>Describing appearance, smell and taste.</li> <li>Suggesting information to be included on packaging.</li> <li>Comparing their own smoothie with someone else's.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>To know that a blender is a machine which mixes ingredients together into a smooth liquid.</li> <li>To know that a fruit has seeds.</li> <li>To know that fruits grow on trees or vines.</li> <li>To know that vegetables can grow either above or below ground.</li> </ul>



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		<p>move it must be attached to a rotating axle.</p> <ul style="list-style-type: none"><li>• To know that an axle moves within an axle holder which is fixed to the vehicle or toy.</li><li>• To know that the frame of a vehicle (chassis) needs to be balanced.</li></ul>	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To understand that cylinders are a strong type of structure (e.g. the main shape used for windmills and lighthouses).</li><li>• To understand that axles are used in structures and mechanisms to make parts turn in a circle.</li><li>• To begin to understand that different structures are used for different purposes.</li><li>• To know that a structure is something that has been made and put together.</li><li>• To know that the sails or blades of a windmill are moved by the wind.</li><li>• To know that a structure is something built for a reason.</li><li>• To know that stable structures do not topple.</li><li>• To know that adding weight to the base of a structure can make it more stable.</li></ul>	<ul style="list-style-type: none"><li>• To know that vegetables is any edible part of a plant (e.g. roots: potatoes, leaves: lettuce, fruit: cucumber).</li></ul>
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	Autumn Term	Spring Term	Summer Term	Summer Term
Year 2	Structures Baby Bears' Chair	Mechanism Fairground wheel	Mechanism Making a moving monster	Food Technology Balanced Diet
	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Generating and communicating ideas using sketching and modelling.</li> <li>• Learning about different types of structures, found in the natural world and in everyday objects.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Making a structure according to design criteria.</li> <li>• Creating joints and structures from paper/card and tape.</li> <li>• Building a strong and stiff structure by folding paper.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Exploring the features of structures. • Comparing the stability of different shapes.</li> <li>• Testing the strength of own structures.</li> <li>• Identifying the weakest part of a structure.</li> <li>• Evaluating the strength, stiffness and stability of own structure.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Selecting a suitable linkage system to produce the desired motion.</li> <li>• Designing a wheel.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Selecting materials according to their characteristics.</li> <li>• Following a design brief.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating different designs.</li> <li>• Testing and adapting a design.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>• To know that different materials have different properties and are therefore suitable for different uses.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Creating a class design criteria for a moving monster.</li> <li>• Designing a moving monster for a specific audience in accordance with a design criteria.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Making linkages using card for levers and split pins for pivots.</li> <li>• Experimenting with linkages adjusting the widths, lengths and thicknesses of card used.</li> <li>• Cutting and assembling components neatly.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating own designs against design criteria.</li> <li>• Using peer feedback to modify a final design.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>• To know that mechanisms are a collection of moving parts that work together as a machine to produce movement.</li> <li>• To know that there is always an input and output in a mechanism.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing three wrap ideas based on a food combination which work well together.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Chopping foods safely to make a wrap.</li> <li>• Constructing a wrap that meets a design brief.</li> <li>• Grating foods to make a wrap.</li> <li>• Snipping smaller foods instead of cutting.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Describing the taste, texture and smell of fruit and vegetables.</li> <li>• Taste testing food combinations and final products.</li> <li>• Describing the information that should be included on a label.</li> <li>• Evaluating food by giving a score.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>• To know that 'diet' means the food and drink that a person or animal usually eats.</li> <li>• To understand what makes a balanced diet.</li> </ul>



	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that shapes and structures with wide, flat bases or legs are the most stable.</li><li>• To understand that the shape of a structure affects its strength.</li><li>• To know that materials can be manipulated to improve strength and stiffness.</li><li>• To know that a structure is something which has been formed or made from parts.</li><li>• To know that a 'stable' structure is one which is firmly fixed and unlikely to change or move.</li><li>• To know that a 'strong' structure is one which does not break easily.</li><li>• To know that a 'stiff' structure or material is one which does not bend easily</li></ul>		<ul style="list-style-type: none"><li>• To know that an input is the energy that is used to start something working.</li><li>• To know that an output is the movement that happens as a result of the input.</li><li>• To know that a lever is something that turns on a pivot.</li><li>• To know that a linkage mechanism is made up of a series of levers.</li></ul>	<ul style="list-style-type: none"><li>• To know that the five main food groups are: Carbohydrates, fruits and vegetables, protein, dairy and foods high in fat and sugar.</li><li>• To understand that I should eat a range of different foods from each food group, and roughly how much of each food group.</li><li>• To know that 'ingredients' means the items in a mixture or recipe.</li></ul>
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	Autumn Term	Spring Term	Summer Term	Summer Term
Year 3	Structures Constructing a castle	Mechanism Pneumatic toys	Textiles Egyptian collars	Food Technology Eating seasonally
	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a castle with key features to appeal to a specific person/purpose.</li> <li>• Drawing and labelling a castle design using 2D shapes, labelling: -the 3D shapes that will create the features - materials needed and colours.</li> <li>• Designing and/or decorating a castle tower on CAD software.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Constructing a range of 3D geometric shapes using nets.</li> <li>• Creating special features for individual designs.</li> <li>• Making facades from a range of recycled materials.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design.</li> <li>• Suggesting points for modification of the individual designs.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a toy which uses a pneumatic system.</li> <li>• Developing design criteria from a design brief.</li> <li>• Generating ideas using thumbnail sketches and exploded diagrams.</li> <li>• Learning that different types of drawings are used in design to explain ideas clearly.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Creating a pneumatic system to create a desired motion.</li> <li>• Building secure housing for a pneumatic system.</li> <li>• Using syringes and balloons to create different types of pneumatic systems to make a functional and appealing pneumatic toy.</li> <li>• Selecting materials due to their functional and aesthetic characteristics.</li> <li>• Manipulating materials to create different effects by cutting, creasing, folding and weaving.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing and making a template from an existing cushion and applying individual design criteria.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Following design criteria to create a Egyptian collar.</li> <li>• Selecting and cutting fabrics with ease using fabric scissors.</li> <li>• Threading needles with greater independence.</li> <li>• Tying knots with greater independence.</li> <li>• Sewing cross stitch to join fabric.</li> <li>• Decorating fabric using appliqué.</li> <li>• Completing design ideas with embellishing the collars based on design ideas.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating an end product and thinking of other ways in which to create similar items.</li> </ul> <p><u>Knowledge</u></p> <ul style="list-style-type: none"> <li>• To know that applique is a way of mending or decorating a textile by applying smaller pieces of fabric to larger pieces.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a recipe for a savoury tart.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Following the instructions within a recipe.</li> <li>• Tasting seasonal ingredients.</li> <li>• Selecting seasonal ingredients.</li> <li>• Peeling ingredients safely.</li> <li>• Cutting safely with a vegetable knife.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Establishing and using design criteria to help test and review dishes.</li> <li>• Describing the benefits of seasonal fruits and vegetables and the impact on the environment.</li> <li>• Suggesting points for improvement when making a seasonal tart</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>• To know that not all fruits and vegetables can be grown in the UK.</li> <li>• To know that climate affects food growth.</li> <li>• To know that vegetables and fruit grow in certain seasons.</li> </ul>



	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To understand that wide and flat based objects are more stable.</li><li>• To understand the importance of strength and stiffness in structures.</li></ul>	<p><u>Evaluate</u></p> <ul style="list-style-type: none"><li>• Using the views of others to improve designs.</li><li>• Testing and modifying the outcome, suggesting improvements.</li><li>• Understanding the purpose of exploded-diagrams through the eyes of a designer and their client.</li></ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To understand how pneumatic systems work.</li><li>• To understand that pneumatic systems can be used as part of a mechanism.</li><li>• To know that pneumatic systems operate by drawing in, releasing and compressing air.</li></ul>	<ul style="list-style-type: none"><li>• To know that when two edges of fabric have been joined together it is called a seam.</li><li>• To know that it is important to leave space on the fabric for the seam.</li><li>• To understand that some products are turned inside out after sewing so the stitching is hidden.</li></ul>	<ul style="list-style-type: none"><li>• To know that cooking instructions are known as a 'recipe'.</li><li>• To know that imported food is food which has been brought into the country.</li><li>• To know that exported food is food which has been sent to another country.</li><li>• To know that eating seasonal foods can have a positive impact on the environment.</li><li>• To know that similar coloured fruits and vegetables often have similar nutritional benefits.</li><li>• To know that the appearance of food is as important as taste.</li></ul>
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	Autumn Term	Spring Term	Summer Term	Summer Term
Year 4	<p><b>Electrical systems</b> <b>Torches</b></p>	<p><b>Textiles</b> <b>Fastenings</b></p>	<p><b>Structure</b> <b>Pavilions</b></p>	<p><b>Cooking and nutrition</b> <b>Adapting a recipe</b></p>
	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a torch, giving consideration to the target audience and creating both design and success criteria focusing on features of individual design ideas.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Making a torch with a working electrical circuit and switch.</li> <li>• Using appropriate equipment to cut and attach materials.</li> <li>• Assembling a torch according to the design and success criteria.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating electrical products.</li> <li>• Testing and evaluating the success of a final product.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>• To understand that electrical conductors are materials which electricity can pass through.</li> <li>• To understand that electrical insulators are materials which electricity cannot pass through.</li> <li>• To know that a battery contains stored electricity that can be used to power products.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Writing design criteria for a product, articulating decisions made.</li> <li>• Designing a personalised book sleeve.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Making and testing a paper template with accuracy and in keeping with the design criteria.</li> <li>• Measuring, marking and cutting fabric using a paper template.</li> <li>• Selecting a stitch style to join fabric.</li> <li>• Working neatly by sewing small, straight stitches.</li> <li>• Incorporating a fastening to a design.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Testing and evaluating an end product against the original design criteria.</li> <li>• Deciding how many of the criteria should be met for the product to be considered successful.</li> <li>• Suggesting modifications for improvement.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect.</li> <li>• Building frame structures designed to support weight.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Creating a range of different shaped frame structures.</li> <li>• Making a variety of free standing frame structures of different shapes and sizes.</li> <li>• Selecting appropriate materials to build a strong structure and cladding.</li> <li>• Reinforcing corners to strengthen a structure.</li> <li>• Creating a design in accordance with a plan.</li> <li>• Learning to create different textural effects with materials.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating structures made by the class.</li> <li>• Describing what characteristics of a design and construction made it the most effective.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a biscuit within a given budget, drawing upon previous taste testing judgements.</li> <li>• Designing packaging for a biscuit that targets a specific group</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Following a baking recipe, including the preparation of ingredients.</li> <li>• Cooking safely, following basic hygiene rules.</li> <li>• Adapting a recipe to meet the requirements of a target audience.</li> <li>• Using a cuboid net to create packaging.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating a recipe, considering taste, smell, texture and appearance.</li> <li>• Describing the impact of the budget on the selection of ingredients.</li> <li>• Evaluating and comparing a range of food products.</li> <li>• Suggesting modifications to a recipe (e.g. This biscuit has too many raisins, and it is falling apart, so next time I will use less raisins).</li> </ul>



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	<ul style="list-style-type: none"><li>• To know that an electrical circuit must be complete for electricity to flow.</li><li>• To know that a switch can be used to complete and break an electrical circuit.</li></ul>	<ul style="list-style-type: none"><li>• Articulating the advantages and disadvantages of different fastening types.</li></ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that a fastening is something which holds two pieces of material together for example a zipper, toggle, button, press stud and velcro.</li><li>• To know that different fastening types are useful for different purposes.</li><li>• To know that creating a mock up (prototype) of their design is useful for checking ideas and proportions.</li></ul>	<ul style="list-style-type: none"><li>• Considering effective and ineffective designs.</li></ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To understand what a frame structure is.</li><li>• To know that a 'free-standing' structure is one which can stand on its own.</li></ul>	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that the amount of an ingredient in a recipe is known as the 'quantity.'</li><li>• To know that safety and hygiene are important when cooking.</li><li>• To know the following cooking techniques: sieving, measuring, stirring, cutting out and shaping.</li><li>• To understand the importance of budgeting while planning ingredients for biscuits.</li><li>• To know that products often have a target audience.</li></ul>
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	Autumn Term	Spring Term	Summer Term	Summer Term
Year 5	<p><b>Textiles</b> <b>Stuff toys</b></p>	<p><b>Mechanical systems</b> <b>Pop-up book</b></p>	<p><b>Structure</b> <b>Bridges</b></p>	<p><b>Food Technology</b> <b>Developing a recipe</b></p>
	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a stuffed toy, considering the main component shapes required and creating an appropriate template.</li> <li>• Considering the proportions of individual components.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Creating a 3D stuffed toy from a 2D design.</li> <li>• Measuring, marking and cutting fabric accurately and independently</li> <li>• Creating strong and secure blanket stitches when joining fabric.</li> <li>• Threading needles independently.</li> <li>• Using appliqué to attach pieces of fabric decoration.</li> <li>• Sewing blanket stitch to join fabric.</li> <li>• Applying blanket stitch so the spaces between the stitches are even and regular.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Testing and evaluating an end product and giving point for further improvements.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• To know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric.</li> <li>• To understand that it is easier to finish simpler designs to a high standard.</li> <li>• To know that soft toys are often made by creating appendages separately and then attaching them to the main body.</li> <li>• To know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong and holds the stuffing securely.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Following a design brief to make a pop-up book, neatly and with focus on accuracy.</li> <li>• Making mechanisms and/or structures using sliders, pivots and folds to produce movement.</li> <li>• Using layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating the work of others and receiving feedback on own work.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a stable structure that is able to support weight.</li> <li>• Creating a frame structure with a focus on triangulation.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Making a range of different shaped beam bridges.</li> <li>• Using triangles to create truss bridges that span a given distance and support a load.</li> <li>• Building a wooden bridge structure.</li> <li>• Independently measuring and marking wood accurately.</li> <li>• Selecting appropriate tools and equipment for particular tasks.</li> <li>• Using the correct techniques to saws safely.</li> <li>• Identifying where a structure needs reinforcement and using card corners for support.</li> <li>• Explaining why selecting appropriating materials is an important part of the design process.</li> <li>• Understanding basic wood functional properties.</li> </ul>	<p>Skills</p> <p><u>Design</u></p> <ul style="list-style-type: none"> <li>• Adapting a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients.</li> <li>• Writing an amended method for a recipe to incorporate the relevant changes to ingredients.</li> <li>• Designing appealing packaging to reflect a recipe.</li> <li>• Researching existing recipes to inform ingredient choices.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Cutting and preparing vegetables safely.</li> <li>• Using equipment safely, including knives, hot pans and hobs.</li> <li>• Knowing how to avoid cross-contamination.</li> <li>• Following a step by step method carefully to make a recipe.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Identifying the nutritional differences between different products and recipes.</li> <li>• Identifying and describing healthy benefits of food groups.</li> </ul>



	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric.</li><li>• To understand that it is easier to finish simpler designs to a high standard.</li><li>• To know that soft toys are often made by creating appendages separately and then attaching them to the main body.</li><li>• To know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong and holds the stuffing securely.</li></ul>	<ul style="list-style-type: none"><li>• Suggesting points for improvement.</li></ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that mechanisms control movement.</li><li>• To understand that mechanisms can be used to change one kind of motion into another.</li><li>• To understand how to use sliders, pivots and folds to create paper-based mechanisms.</li></ul>	<p><b>Evaluate</b></p> <ul style="list-style-type: none"><li>• Adapting and improving own bridge structure by identifying points of weakness and reinforcing them as necessary.</li><li>• Suggesting points for improvements for own bridges and those designed by others.</li></ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To understand some different ways to reinforce structures.</li><li>• To understand how triangles can be used to reinforce bridges.</li><li>• To know that properties are words that describe the form and function of materials.</li><li>• To understand why material selection is important based on properties.</li><li>• To understand the material (functional and aesthetic) properties of wood.</li></ul>	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To understand where meat comes from - learning that beef is from cattle and how beef is reared and processed.</li><li>• To know that recipes can be adapted to suit nutritional needs and dietary requirements.</li><li>• To know that I can use a nutritional calculator to see how healthy a food option is.</li><li>• To understand that 'cross-contamination' means bacteria and germs have been passed onto ready-to-eat foods and it happens when these foods mix with raw meat or unclean objects.</li><li>• To know that coloured chopping boards can prevent cross-contamination.</li><li>• To know that nutritional information is found on food packaging.</li><li>• To know that food packaging serves many purposes.</li></ul>
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	Autumn Term	Spring Term	Summer Term	Summer Term
Year 6	<p><b>Mechanical systems</b> <b>Automata toys</b></p>	<p><b>Structures</b> <b>Playground</b></p>	<p><b>Electrical systems</b> <b>Steady hand game</b></p>	<p><b>Food Technology</b> <b>Come dine with me</b></p>
	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a stuffed toy, considering the main component shapes required and creating an appropriate template.</li> <li>• Considering the proportions of individual components.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Creating a 3D stuffed toy from a 2D design.</li> <li>• Measuring, marking and cutting fabric accurately and independently</li> <li>• Creating strong and secure blanket stitches when joining fabric.</li> <li>• Threading needles independently.</li> <li>• Using appliqué to attach pieces of fabric decoration.</li> <li>• Sewing blanket stitch to join fabric.</li> <li>• Applying blanket stitch so the spaces between the stitches are even and regular.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Testing and evaluating an end product and giving point for further improvements.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a playground featuring a variety of different structures, giving careful consideration to how the structures will be used, considering effective and ineffective designs.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Building a range of play apparatus structures drawing upon new and prior knowledge of structures.</li> <li>• Measuring, marking and cutting wood to create a range of structures.</li> <li>• Using a range of materials to reinforce and add decoration to structures.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Improving a design plan based on peer evaluation.</li> <li>• Testing and adapting a design to improve it as it is developed.</li> <li>• Identifying what makes a successful structure.</li> </ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"> <li>• To know that structures can be strengthened by manipulating materials and shapes.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Designing a steady hand game - identifying and naming the components required.</li> <li>• Drawing a design from three different perspectives.</li> <li>• Generating ideas through sketching and discussion.</li> <li>• Modelling ideas through prototypes.</li> <li>• Understanding the purpose of products (toys), including what is meant by 'fit for purpose' and 'form over function'.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Constructing a stable base for a game.</li> <li>• Accurately cutting, folding and assembling a net.</li> <li>• Decorating the base of the game to a high quality finish.</li> <li>• Making and testing a circuit.</li> <li>• Incorporating a circuit into a base.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Testing own and others finished games, identifying what went well and making suggestions for improvement.</li> </ul>	<p><b>Skills Developed:</b> <u>Design</u></p> <ul style="list-style-type: none"> <li>• Writing a recipe, explaining the key steps, method and ingredients.</li> <li>• Including facts and drawings from research undertaken.</li> </ul> <p><u>Make</u></p> <ul style="list-style-type: none"> <li>• Following a recipe, including using the correct quantities of each ingredient.</li> <li>• Adapting a recipe based on research.</li> <li>• Working to a given timescale.</li> <li>• Working safely and hygienically with independence.</li> </ul> <p><u>Evaluate</u></p> <ul style="list-style-type: none"> <li>• Evaluating a recipe, considering: taste, smell, texture and origin of the food group.</li> <li>• Taste testing and scoring final products.</li> <li>• Suggesting and writing up points of improvements when scoring others' dishes, and when evaluating their own throughout the planning, preparation and cooking process.</li> <li>• Evaluating health and safety in production to minimise cross contamination.</li> </ul>



LAUREL LANE

Primary School

	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric.</li><li>• To understand that it is easier to finish simpler designs to a high standard.</li><li>• To know that soft toys are often made by creating appendages separately and then attaching them to the main body.</li><li>• To know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong and holds the stuffing securely.</li></ul>		<ul style="list-style-type: none"><li>• Gathering images and information about existing children's toys.</li><li>• Analysing a selection of existing children's toys.</li></ul> <p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that batteries contain acid, which can be dangerous if they leak.</li><li>• To know the names of the components in a basic series circuit, including a buzzer</li></ul>	<p><b>Knowledge Developed:</b></p> <ul style="list-style-type: none"><li>• To know that 'flavour' is how a food or drink tastes.</li><li>• To know that many countries have 'national dishes' which are recipes associated with that country.</li><li>• To know that 'processed food' means food that has been put through multiple changes in a factory.</li><li>• To understand that it is important to wash fruit and vegetables before eating to remove any dirt and insecticides.</li><li>• To understand what happens to a certain food before it appears on the supermarket shelf (Farm to Fork).</li></ul>
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