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## Curriculum Progression Map: Feb 2023 Subject: Design and Technology

Design and technology is an inspiring, rigorous and practical subject. Using creativity and imagination, pupils explore, design and make products that solve real and relevant problems within a variety of contexts, considering their own and others' needs, wants and values. They acquire a broad range of subject knowledge and draw on disciplines such as mathematics, science, engineering, computing and art. Children are taught to use tools correctly and safely to combine their designing and making skills alongside their knowledge and understanding in order to construct products that satisfy needs and challenges. They will also learn to apply the principles of a healthy diet and prepare and cook a variety of dishes. As the children make their way through the school, they will develop their understanding to explore, Investigate and analyse products, explore complex structures and use mechanical systems and electrical systems in products.

| Key <br> Area | Year R | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
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## Structures

## Skills



| Make | Improving fine motor/scissor skills with a variety of materials. <br> Joining materials in a variety of ways (temporary and permanent). <br> Joining different materials together. <br> Describing their junk model, and how they intend to put it together. | Making stable structures from card, tape and glue <br> Learning how to turn 2D nets into 3D structures. <br> Following instructions to cut and assemble the supporting structure of a windmill. <br> Making functioning turbines and axles which are assembled into a main supporting structure. | Making a structure according to design criteria. <br> Creating joints and structures from paper/card and tape. <br> Building a strong and stiff structure by folding paper. | Constructing a range of 3D geometric shapes using nets. <br> Creating special features for individual designs. <br> Making facades from a range of recycled materials. | Creating a range of different shaped frame structures. <br> Making a variety of free-standing frame structures of different shapes and sizes. <br> Selecting appropriate materials to build a strong structure and cladding. <br> Reinforcing corners to strengthen a structure. <br> Creating a design in accordance with a plan. <br> Learning to create different textural effects with materials | Making a range of different shaped beam bridges. <br> Using triangles to create truss bridges that span a given distance and support a load. <br> Building a wooden bridge structure. <br> Independently measuring and marking wood accurately. <br> Selecting appropriate tools and equipment for particular tasks. <br> Using the correct techniques to saws safely. <br> Identifying where a structure needs reinforcement and using card corners | Building a range of play apparatus structures drawing upon new and prior knowledge of structures. <br> Measuring, marking and cutting wood to create a range of structures. <br> Using a range of materials to reinforce and add decoration to structures. |
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|  |  |  |  |  |  | for support. <br> Explaining why selecting appropriating materials is an important part of the design process. <br> Understanding basic wood functional properties. |  |
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| Evaluate | Giving a verbal evaluation of their own and others' junk models with adult support. <br> Checking to see if their model matches their plan. <br> Considering what they would do differently if they were to do it again. <br> Describing their favourite and least | Evaluating a windmill according to the design criteria, testing whether the structure is strong and stable and altering it if it isn't. <br> Suggest points for improvements. | Exploring the features of structures. <br> Comparing the stability of different shapes. <br> Testing the strength of own structures. <br> Identifying the weakest part of a structure. <br> Evaluating the strength, stiffness | Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design. <br> Suggesting points for modification of the individual designs. | Evaluating structures made by the class. <br> Describing what characteristics of a design and construction made it the most effective. <br> Considering effective and ineffective designs. | Adapting and improving own bridge structure by identifying points of weakness and reinforcing them as necessary. <br> Suggesting points for improvements for own bridges and those designed by others. | Improving a design plan based on peer evaluation. <br> Testing and adapting a design to improve it as it is developed. <br> Identifying what makes a successful structure. |


|  | favourite part of their model. |  | and stability of own structure. |  |  |  |  |
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| Knowledge |  |  |  |  |  |  |  |
| Technical | To know there are a range to different materials that can be used to make a model and that they are all slightly different. <br> Making simple suggestions to fix their junk model. | To understand that the shape of materials can be changed to improve the strength and stiffness of structures. <br> To understand that cylinders are a strong type of structure (e.g. the main shape used for windmills and lighthouses). <br> To understand that axles are used in structures and mechanisms to make <br> parts turn in a circle. <br> To begin to understand that different structures | To know that shapes and structures with wide, flat bases or legs are the most stable. <br> To understand that the shape of a structure affects its strength. <br> To know that materials can be manipulated to improve strength and stiffness. <br> To know that a structure is something which has been formed or made from parts. <br> To know that a 'stable' structure is one which is | To understand that wide and flat based objects are more stable. <br> To understand the importance of strength and stiffness in structures. <br> To know the following features of a castle: flags, towers, battlements, turrets, <br> curtain walls, moat, drawbridge and gatehouse and their purpose. <br> To know that a façade is the front of a structure. | To understand what a frame structure is. <br> To know that a 'free-standing' structure is one which can stand on its own. <br> To know that a pavilion is a a decorative building or structure for leisure activities. <br> To know that cladding can be applied to structures for different effects. <br> To know that aesthetics are how a product looks. | To understand some different ways to reinforce structures. <br> To understand how triangles can be used to reinforce bridges. <br> To know that properties are words that describe the form and function of materials. <br> To understand why material selection is important based on properties. <br> To understand the material (functional and aesthetic) properties of wood. | To know that structures can be strengthened by manipulating materials and shapes. <br> To understand what a 'footprint plan' is. <br> To understand that in the real world, design can impact users in positive and negative ways. <br> To know that a prototype is a cheap model to test a design idea. |


|  |  | are used for different purposes. <br> To know that a structure is something that has been made and put together. | firmly fixed and unlikely to changeor move. <br> To know that a 'strong' structure is one which does not break easily. <br> To know that a 'stiff' structure or material is one which does not bend easily. | To understand that a castle needed to be strong and stable to withstand enemy attack. <br> To know that a paper net is a flat 2D shape that can become a 3D shape once assembled. <br> To know that a design specification is a list of success criteria for a product. | To know that a product's function means its purpose. |  |  |
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| Mechanisms |  |  |  |  |  |  |  |
| Skills |  |  |  |  |  |  |  |
| Design |  | Making a moving Storybook <br> Explaining how to adapt mechanisms, using bridges or | Wheels and Axles <br> Designing a vehicle that includes wheels, | Pneumatic Toys <br> Designing a toy which uses a pneumatic system. | Making a Slingshot Car <br> Designing a shape | Pop-up Book <br> Designing a pop-up book which uses a mixture of structures and | Automata toys <br> Experimenting with a range of cams, creating a design for an |

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|  |  | guides to control the movement. <br> Designing a moving story book for a given audience. | axles and axle holders, that when combined, will allow the wheels to move. <br> Creating clearly labelled drawings that illustrate movement. | Developing design criteria from a design brief. <br> Generating ideas using thumbnail sketches and exploded diagrams. <br> Learning that different types of drawings are used in design to explain ideas clearly. | that reduces air resistance. <br> Drawing a net to create a structure from. <br> Choosing shapes that increase or decrease speed as a result of air resistance. <br> Personalising a design. | mechanisms. <br> Naming each mechanism, input and output accurately. <br> Storyboarding ideas for a book. | automata toy based on a choice of cam to create a desired movement. <br> Understanding how linkages change the direction of a force. <br> Making things move at the same time. <br> Understanding and drawing crosssectional diagrams to show the innerworkings of my design. |
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| Make |  | Following a design to create moving models that use levers and sliders. | Adapting mechanisms, when: <br> - they do not work as they should. <br> - to fit their vehicle design. | Creating a pneumatic system to create a desired motion. <br> Building secure housing for a pneumatic system. | Measuring, marking, cutting and assembling with increasing accuracy. <br> Making a model based on a chosen design. | Following a design brief to make a pop up book, neatly and with focus on accuracy. <br> Making mechanisms | Measuring, marking and checking the accuracy of the jelutong and dowel pieces required. <br> Measuring, |



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|  |  |  |  |  |  |  | which the glue needs to dry/set. |
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| Evaluate |  | Testing a finished product, seeing whether it moves as planned and if not, explaining why and how it can be fixed. <br> Reviewing the success of a product by testing it with its intended audience. | Testing wheel and axle mechanisms, identifying what stops the wheels from turning, and recognising that a wheel <br> needs an axle in order to move. | Using the views of others to improve designs. <br> Testing and modifying the outcome, suggesting improvements. <br> Understanding the purpose of exploded-diagrams through the eyes of a designer and their client. | Evaluating the speed of a final product based on: the effect of shape on speed and the accuracy of workmanship on performance. | Evaluating the work of others and receiving feedback on own work. <br> Suggesting points for improvement. | Evaluating the work of others and receiving feedback on own work. <br> Applying points of improvement to their toys. <br> Describing changes they would make/do if they were to do the project again. |

## Knowledge

| Technical |  | To know that a mechanism is the parts of an object that move together. <br> To know that a slider mechanism moves an object from side to side. <br> To know that a slider mechanism has a slider, slots, guides and an object. <br> To know that bridges and guides are bits of card that purposefully restrict the movement of the slider. | To know that wheels need to be round to rotate and move. <br> To understand that for a wheel to move it must be attached to a rotating axle. <br> To know that an axle moves within an axle holder which is fixed to the vehicle or toy. <br> To know that the frame of a vehicle (chassis) needs to be balanced. | To understand how pneumatic systems work. <br> To understand that pneumatic systems can be used as part of a mechanism. <br> To know that pneumatic systems operate by drawing in, releasing and compressing air. | To understand that all moving things have kinetic energy. <br> To understand that kinetic energy is the energy that something (object/person) has by being in motion. <br> To know that air resistance is the level of drag on an object as it is forced through the air. <br> To understand that the shape of a moving object will affect how it moves due to air resistance. | To know that mechanisms control movement. <br> To understand that mechanisms can be used to change one kind of motion into another. <br> To understand how to use sliders, pivots and folds to create paperbased mechanisms. | To understand that the mechanism in an automata uses a system of cams, axles and followers. <br> To understand that different shaped cams produce different outputs. |
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Electrical Systems (KS2 only)

## Skills



| Make |  |  |  | Create a final design for the electric poster. <br> Mount the poster onto corrugated card to improve its strength and allow it to withstand the weight of the circuit on the rear. <br> Measure and mark materials out using a template or ruler. <br> Fit an electrical component (bulb). <br> Learn ways to give the final product a higher quality finish (e.g. framing to conceal a roughly cut edge). | Making a torch with a working electrical circuit and switch. <br> Using appropriate equipment to cut and attach materials. <br> Assembling a torch according to the design and success criteria. | Altering a product's form and function by tinkering with its configuration. <br> Making a functional series circuit, incorporating a motor. <br> Constructing a product with consideration for the design criteria. <br> Breaking down the construction process into steps so that others can make the product. | Constructing a stable base for a game. <br> Accurately cutting, folding and assembling a net. <br> Decorating the base of the game to a high-quality finish. <br> Making and testing a circuit. <br> Incorporating a circuit into a base. |
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| Evaluate |  |  |  | Learning to give and accept constructive criticism on own work and the work of others. | Evaluating electrical products. <br> Testing and evaluating the | Carry out a product analysis to look at the purpose of a product along with | Testing own and others finished games, identifying what went well and making |

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|  |  |  |  | Testing the success of initial ideas against the design criteria and justifying opinions. <br> Revisiting the requirements of the client to review developing design ideas and check that they fulfil their needs. | success of a final product. | its strengths and weaknesses. <br> Determining which parts of a product affect its function and which parts affect its form. <br> Analysing whether changes in configuration positively or negatively affect an existing product. <br> Peer evaluating a set of instructions to build a product. | suggestions for improvement. <br> Gathering images and information about existing children's toys. <br> Analysing a selection of existing children's toys. |
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Knowledge

| Technical |  |  |  | To understand that an electrical system is a group of parts (components) that work together to transport electricity around a circuit. <br> To understand common features of an electric product (switch, battery or plug, dials, buttons etc.). <br> To list examples of common electric products (kettle, remote control etc.). <br> To understand that an electric product uses an electrical system to work (function). <br> To know the name and appearance of | To understand that electrical conductors are materials which electricity can pass through. <br> To understand that electrical insulators are materials which electricity cannot pass through. <br> To know that a battery contains stored electricity that can be used to power products. <br> To know that an electrical circuit must be complete for electricity to flow. <br> To know that a switch can be used to complete and break an electrical circuit. | To know that series circuits only have one direction for the electricity to flow. <br> To know when there is a break in a series circuit, all components turn off. <br> To know that an electric motor converts electrical energy into rotational movement, causing the motor's axle to spin. <br> To know a motorised product is one which uses a motor to function. | To know that batteries contain acid, which can be dangerous if they leak. <br> To know the names of the components in a basic series circuit, including a buzzer. <br> To know that 'form' means the shape and appearance of an object. <br> To know the difference between 'form' and 'function'. <br> To understand that 'fit for purpose' means that a product works how it should and is easy to use. |
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|  |  |  |  | a bulb, battery <br> battery holder and <br> crocolie wire to <br> buidd simple <br> circuits. |  |  |
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Food (Any ingredients or recipes should follow or be adapted to the school ethos)

## Skills

| Design | Soup <br> Designing a soup recipe as a class. <br> Designing soup packaging. | Fruit and <br> Vegetables <br> Designing smoothie carton packaging by-hand or on ICT software. | A Balanced Diet <br> Designing a healthy wrap based on a food combination which work well together. | Eating <br> Seasonally <br> Creating a healthy and nutritious recipe for a savoury tart using seasonal ingredients, considering the taste, texture, smell and appearance of the dish. | Adapting a recipe <br> Designing a biscuit within a given budget, drawing upon previous taste testing judgements. | What Could be Healthier? <br> Adapting a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients. <br> Writing an amended method for a recipe to incorporate the relevant changes to ingredients. <br> Designing appealing packaging to reflect a recipe | Come Dine With Me <br> Writing a recipe, explaining the key steps, method and ingredients. <br> Including facts and drawings from research undertaken. |
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| Make | Chopping plasticine safely. <br> Chopping vegetables with support. | Chopping fruit and vegetables safely to make a smoothie. | Slicing food safely using the bridge or claw grip. <br> Constructing a wrap that meets a design brief. | Knowing how to prepare themselves and a work space to cook safely in, learning the basic rules to avoid food contamination. | Following a baking recipe, from start to finish, including the preparation of ingredients. | Cutting and preparing vegetables safely. <br> Using equipment safely, including knives, hot pans and hobs. | Following a recipe, including using the correct quantities of each ingredient. <br> Adapting a recipe based on research. |


|  |  |  |  | Following the instructions within a recipe. | Cooking safely, following basic hygiene rules. <br> Adapting a recipe to improve it or change it to meet new criteria (e.g. from savoury to sweet). | Knowing how to avoid crosscontamination. <br> Following a step by step method carefully to make a recipe. | Working to a given timescale. <br> Working safely and hygienically with independence. |
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| Evaluate | Tasting the soup and giving opinions. <br> Describing some of the following when tasting food: look, feel, smell and taste. <br> Choosing their favourite packaging design and explaining why. | Tasting and evaluating different food combinations. <br> Describing appearance, smell and taste. <br> Suggesting information to be included on packaging. | Describing the taste, texture and smell of fruit and vegetables. <br> Taste testing food combinations and final products. <br> Describing the information that should be included on a label. <br> Evaluating which grip was most effective. | Establishing and using design criteria to help test and review dishes. <br> Describing the benefits of seasonal fruits and vegetables and the impact on the environment. <br> Suggesting points for improvement when making a seasonal tart. | Evaluating a recipe, considering: taste, smell, texture and appearance. <br> Describing the impact of the budget on the selection of ingredients. <br> Evaluating and comparing a range of food products. <br> Suggesting modifications to a recipe (e.g. This biscuit has too many raisins, and it is falling apart, | Identifying the nutritional differences between different products and recipes. <br> Identifying and describing healthy benefits of food groups. | Evaluating a recipe, considering: taste, smell, texture and origin of the food group. <br> Taste testing and scoring final products. <br> Suggesting and writing up points of improvements when scoring others' dishes, and when evaluating their own throughout the planning, preparation and cooking |


|  |  |  |  |  | so next time I will use less raisins). |  | process. <br> Evaluating health and safety in production to minimise cross contamination. |
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| Knowledge |  |  |  |  |  |  |  |
| Cooking and nutrition | To know that soup is ingredients (usually vegetables and liquid) blended together. <br> To know that vegetables are grown. <br> To recognise and name some common vegetables. <br> To know that different vegetables taste different. <br> To know that eating vegetables is good for us. | Understanding the difference between fruits and vegetables. <br> To understand that some foods typically known as vegetables are actually fruits (e.g. cucumber). <br> To know that a blender is a machine which mixes ingredients together into a smooth liquid. <br> To know that a fruit has seeds and a vegetable does not. | To know that 'diet' means the food and drink that a person or animal usually eats. <br> - To understand what makes a balanced diet. <br> - To know where to find the nutritional information on packaging. <br> - To know that the five main food groups are: Carbohydrates, fruits and vegetables, protein, dairy and foods high in fat and sugar. | To know that not all fruits and vegetables can be grown in the UK. <br> To know that climate affects food growth. <br> To know that vegetables and fruit grow in certain seasons. <br> To know that cooking instructions are known as a 'recipe'. <br> To know that imported food is food which has | To know that the amount of an ingredient in a recipe is known as the 'quantity.' <br> To know that it is important to use oven gloves when removing hot food from an oven. <br> To know the following cooking techniques: sieving, creaming, rubbing method, cooling. <br> To understand the importance of budgeting while planning | To understand where meat comes from - learning that beef is from cattle and how beef is reared and processed, including key welfare issues. <br> To know that I can adapt a recipe to make it healthier by substituting ingredients. <br> To know that I can use a nutritional calculator to see how healthy a food option is. <br> To understand that 'cross- | To know that 'flavour' is how a food or drink tastes. <br> To know that many countries have 'national dishes' which are recipes associated with that country. <br> To know that 'processed food' means food that has been put through multiple changes in a factory. <br> To understand that it is important to wash fruit and |

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|  |  |  | To know that many food and drinks we do not expect to contain sugar do; we call these 'hidden sugars' | To know safety rules for using, storing and cleaning a knife safely. <br> To know that similar coloured fruits and vegetables often have similar nutritional benefits. |  |  |  |
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| Textiles |  |  |  |  |  |  |  |
| Skills |  |  |  |  |  |  |  |
| Design | Bookmarks <br> Discussing what a good design needs. <br> Designing a simple pattern with paper. <br> Designing a bookmark. | Puppets <br> Using a template to create a design for a puppet. | Pouches <br> Designing a pouch. | Cushions <br> Designing and making a template from an existing cushion and applying individual design criteria. | Fastenings <br> Writing design criteria for a product, articulating decisions made. <br> Designing a personalised book sleeve. | Stuffed Toys <br> Designing a stuffed toy, considering the main component shapes required and creating an appropriate template. <br> Considering the proportions of individual components. | Waistcoats <br> Designing a waistcoat in accordance to a specification linked to set of design criteria. <br> Annotating designs, to explain their decisions. |


|  | Choosing from available materials. |  |  |  |  |  |  |
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| Make | Developing fine motor/cutting skills with scissors. | Cutting fabric neatly with scissors. | Selecting and cutting fabrics for sewing. | Following design criteria to create a cushion | Making and testing a paper template with accuracy and in keeping with the design criteria. | Creating a 3D stuffed toy from a 2D design. | Using a template when cutting fabric to ensure they achieve the correct shape. |
|  | Exploring fine motor/threading and weaving | Using joining methods to decorate a puppet. <br> Sequencing steps for construction. | Decorating a pouch using fabric glue or running stitch. | Selecting and cutting fabrics with ease using fabric scissors. |  | Measuring, marking and cutting fabric accurately and independently. | correct shape. <br> Using pins effectively to secure a template to fabric without creases or bulges. |
|  | (under, over technique) with a |  |  |  | Measuring, marking and |  |  |
|  | variety of materials. |  | Threading a needle. | Threading needles with greater independence. | cutting fabric using a paper template. | Creating strong and secure blanket |  |
|  | Using a prepared needle and wool to practise |  | Sewing running stitch, with evenly spaced, neat, | Tying knots with greater independence. | Selecting a stitch style to join fabric. | stitches when joining fabric. | Marking and cutting fabric accurately, in |
|  |  |  | even stitches to join fabric. |  | Working neatly by sewing small, | Threading needles independently. | their design. |
|  |  |  | Neatly pinning and cutting fabric using a template. | Sewing cross stitch to join fabric. | straight stitches. | Using appliqué to | Sewing a strong |
|  |  |  |  | Decorating fabric using appliqué. | Incorporating a fastening to a design. | attach pieces of fabric decoration. | running stitch, making small, neat stitches and |
|  |  |  |  | Completing design ideas with stuffing and sewing the |  | Sewing blanket stitch to join fabric. | following the edge. <br> Tying strong knots. |
|  |  |  |  |  |  | Applying blanket stitch so the | Decorating a waistcoat, |

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|  |  |  |  |  |  | spaces between the stitches are even and regular. | attaching features (such as appliqué) using thread. <br> Finishing the waistcoat with a secure fastening (such as buttons). <br> Learning different decorative stitches. <br> Sewing accurately with evenly spaced, neat stitches. |
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| Evaluate | Reflecting on a finished product and comparing to their design. | Reflecting on a finished product, explaining likes and dislikes | Troubleshooting scenarios posed by teacher. <br> Evaluating the quality of the stitching on others' work. <br> Discussing as a class, the success of their stitching against the success criteria. | Evaluating an end product and thinking of other ways in which to create similar items. | Testing and evaluating an end product against the original design criteria. <br> Deciding how many of the criteria should be met for the product to be considered successful. | Testing and evaluating an end product and giving point for further improvements. | Reflecting on their work continually throughout the design, make and evaluate process. |


|  |  | Identifying aspects of their peers' work that they particularly like and why. |  | Suggesting modifications for improvement. <br> Articulating the advantages and disadvantages of different fastening types. |  |  |
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| Knowledge |  |  |  |  |  |  |
| To know that a design is a way of planning our idea before we start. <br> To know that threading is putting one material through an object. | To know that 'joining technique' means connecting two pieces of material together. To know that there are various temporary methods of joining fabric by using staples. glue or pins. <br> To understand that different techniques for joining materials can be used for different purposes. <br> To understand that a template (or | To know that sewing is a method of joining fabric. <br> To know that different stitches can be used when sewing. <br> To understand the importance of tying a knot after sewing the final stitch. <br> To know that a thimble can be used to protect my fingers when sewing. | Establishing and points for improvement when making a seasonal recipe | To know that a fastening is something which holds two pieces of material together for example a zipper, toggle, button, press stud and velcro. <br> To know that different fastening types are useful for different purposes. <br> To know that creating a mock-up (prototype) of their design is useful for checking | To know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric. <br> To understand that it is easier to finish simpler designs to a high standard. <br> To know that soft toys are often made by creating appendages separately | To understand that it is important to design clothing with the client/ target customer in mind. <br> To know that using a template (or clothing pattern) helps to accurately mark out a design on fabric. <br> To understand the importance of consistently sized stitches. |

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