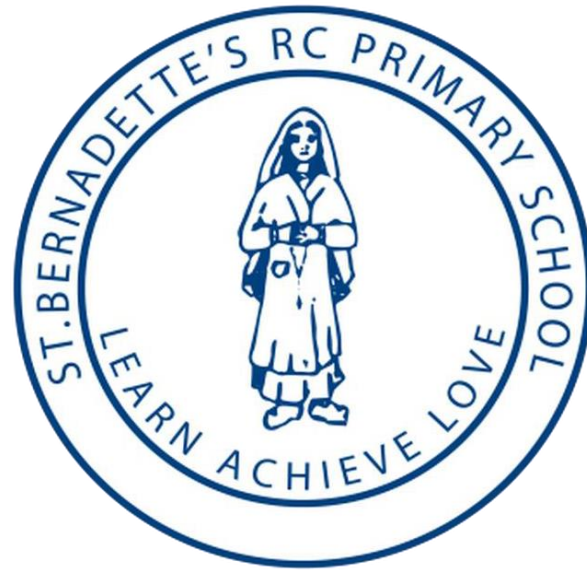


# ST BERNADETTE'S RC PRIMARY SCHOOL



**DESIGN & TECHNOLOGY MILESTONES**



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STRUCTURES				
	Milestone 1 – End of EYFS	Milestone 2 – End of Year 2	Milestone 3 – End of Year 4	Milestone 4 – End of Year 6
Design	<ul style="list-style-type: none"> <li>• Make verbal plans &amp; material choices.</li> <li>• Think of ideas – know what they are going to make before they make it.</li> <li>• Design &amp; develop own models.</li> <li>• Use knowledge from exploration to inform design.</li> <li>• Create simple representations of events, people &amp; objects</li> <li>• Plan &amp; make decisions about how to approach a task, solve a problem &amp; reach a goal</li> <li>• Represent own ideas, thoughts &amp; feelings through D&amp;T</li> </ul>	<ul style="list-style-type: none"> <li>• Learn the importance of a clear design criteria</li> <li>• Include individual preferences &amp; requirements in a design.</li> <li>• Generate &amp; communicate ideas using sketches &amp; models</li> <li>• Learn about different types of structures, found in the natural world &amp; in everyday objects</li> </ul>	<ul style="list-style-type: none"> <li>• Design with key features to appeal to a specific person/purpose</li> <li>• Draw &amp; label shapes that will create the features.</li> <li>• Label materials, need &amp; colours.</li> <li>• Design &amp;/or decorate on CAD software.</li> <li>• Design a stable structure that is aesthetically pleasing &amp; select materials to create a desired effect</li> <li>• Build frame structures designed to support weight</li> </ul>	<ul style="list-style-type: none"> <li>• Design a stable structure that is able to support weight</li> <li>• Create frame structure with focus on triangulation</li> <li>• Design the features of a variety of different structures, considering how the structures will be used, &amp; their effective &amp; ineffective designs</li> </ul>
Make	<ul style="list-style-type: none"> <li>• Improve fine motor/scissor skills with a variety of materials.</li> <li>• Join materials in a variety of ways (temporary &amp; permanent)- exploring a range of adhesives</li> <li>• Consider material choice</li> <li>• Describe their design &amp; how they intend to make it.</li> <li>• Engage in open-ended activity</li> <li>• Changing strategy as needed</li> <li>• Use technical vocab when appropriate</li> <li>• Make simple 2D &amp; 3D structures</li> </ul>	<ul style="list-style-type: none"> <li>• Make stable structures from card, tape &amp; glue</li> <li>• Follow instructions</li> <li>• Learn how to turn 2D nets into 3D structures</li> <li>• Make a structure according to design criteria.</li> <li>• Create joints &amp; structures from paper/card &amp; tape.</li> <li>• Build a strong &amp; stiff structure by folding paper.</li> </ul>	<ul style="list-style-type: none"> <li>• Construct a range of 3D geometric shapes using nets.</li> <li>• Create special features for individual designs.</li> <li>• Use a range of recycled materials.</li> <li>• Create a range of frame structures – free standing of different shapes &amp; sizes.</li> <li>• Select appropriate materials</li> <li>• Reinforce corners to strengthen a structure.</li> <li>• Create a design in accordance with a plan.</li> <li>• Learn to create different textural effects with materials</li> </ul>	<ul style="list-style-type: none"> <li>• Build a range of play apparatus structures drawing upon new &amp; prior knowledge of structures</li> <li>• Measure, mark &amp; cut wood to create a range of structures using a range of materials to reinforce &amp; add decoration to structures</li> <li>• Select appropriate tools &amp; equipment for particular tasks</li> <li>• Explain why selecting appropriate materials is an important part of the design process</li> <li>• Use the correct techniques to saws safely</li> <li>• Understanding basic wood functional properties</li> </ul>
Evaluate	<ul style="list-style-type: none"> <li>• Give a verbal evaluation of own &amp; others' finished products</li> <li>• Check to see if what they have made matches their plan</li> <li>• Test their design &amp; consider what they would do differently if they did it again.</li> <li>• Describe their favourite &amp; least favourite part of what they have made.</li> </ul>	<ul style="list-style-type: none"> <li>• Explore the features of structures</li> <li>• Compare the stability of different shapes</li> <li>• Test the strength of own structures</li> <li>• Identify the weakest part of a structure</li> <li>• Evaluate the strength, stiffness &amp; stability of own structure</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate own work &amp; others work based on the aesthetic of the finished product &amp; in comparison, to the original design.</li> <li>• Suggest points for modification of their designs.</li> <li>• Evaluate structures made by the class.</li> </ul>	<ul style="list-style-type: none"> <li>• Improve a design plan based on peer evaluation.</li> <li>• Test &amp; adapting a design to improve it as it is developed.</li> <li>• Identify what makes a successful structure.</li> </ul>

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	<ul style="list-style-type: none"> <li>Find ways to solve problems / find new ways to do things / test their ideas</li> <li>Checking how well their activities are going</li> <li>Return to a design &amp; build upon previous learning - make changes/learn from experiences.</li> </ul>		<ul style="list-style-type: none"> <li>Describe the characteristics of a design/ construction that made it the most effective.</li> <li>Consider effective &amp; ineffective designs</li> </ul>	
Technical Knowledge	<ul style="list-style-type: none"> <li>Show curiosity about objects, events &amp; people</li> <li>Questions why things happen</li> <li>Use senses to explore the world around them</li> </ul>	<ul style="list-style-type: none"> <li>Understand that the shape of materials can be changed to improve the strength &amp; stiffness of structure</li> <li>Understand that cylinders are a strong type of structure (e.g. the main shape used for windmills &amp; lighthouses)</li> <li>Understand that axles are used in structures &amp; mechanisms to make parts turn in a circle</li> <li>Begin to Understand that different structures are used for different purpose</li> <li>Know that a structure is something that has been made &amp; put together</li> <li>Know that shapes &amp; structures with wide, flat bases or legs are the most stable</li> <li>Understand that the shape of a structure affects its strength</li> <li>Know that materials can be manipulated to improve strength &amp; stiffness</li> <li>Know that a structure is something which has been formed or made from parts</li> <li>Know that a 'stable' structure is one which is firmly fixed &amp; unlikely to change or move</li> <li>Know that a 'strong' structure is one which does not break easily</li> <li>Know that a 'stiff' structure or material is one which does not bend easily</li> </ul>	<ul style="list-style-type: none"> <li>Understand that wide &amp; flat based objects are more stable</li> <li>Understand the importance of strength &amp; stiffness in structures</li> <li>Understand what a frame structure is</li> <li>Know that a 'free-standing' structure is one which can stand on its own</li> </ul>	<ul style="list-style-type: none"> <li>Understand some different ways to reinforce structures</li> <li>Understand how triangles can be used to reinforce bridges</li> <li>Know that properties are words that describe the form &amp; function of materials</li> <li>Understand why material selection is important based on their properties</li> <li>Understand the material (functional &amp; aesthetic) properties of wood</li> <li>Know that structures can be strengthened by manipulating materials &amp; shapes</li> </ul>

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MECHANISMS				
	Milestone 1 – End of EYFS	Milestone 2 – End of Year 2	Milestone 3 – End of Year 4	Milestone 4 – End of Year 6
Design	<ul style="list-style-type: none"> <li>• Use talk to clarify ideas for a design</li> <li>• Begin to plan a design before starting</li> <li>• Make decisions about how to approach a task, solve a problem &amp; reach a goal</li> </ul>	<ul style="list-style-type: none"> <li>• Create clearly labelled drawings which illustrate movement</li> <li>• Create a class design criterion</li> <li>• Design for a specific audience in accordance with a design criterion</li> <li>• Select a suitable linkage system to produce the desired motions</li> <li>• Select appropriate materials based on their properties</li> </ul>	<ul style="list-style-type: none"> <li>• Design a shape that reduces air resistance</li> <li>• Draw a net to create a structure from</li> <li>• Choose shapes that increase or decrease speed as a result of air resistance</li> <li>• Personalise a design</li> </ul>	<ul style="list-style-type: none"> <li>• Design a product which uses a mixture of structures &amp; mechanisms</li> <li>• Name each mechanism, input &amp; output accurately</li> <li>• Storyboard ideas for a book</li> </ul>
Make	<ul style="list-style-type: none"> <li>• Explore &amp; select appropriate tools &amp; materials in order to assemble &amp; join materials.</li> <li>• Handle tools &amp; materials safely</li> <li>• Use simple tools to effect changes in materials</li> <li>• Change strategy as needed</li> <li>• Construct with a purpose in mind.</li> </ul>	<ul style="list-style-type: none"> <li>• Select materials according to their characteristics.</li> <li>• Follow a design brief.</li> <li>• Make linkages using card for levers &amp; split pins for pivots.</li> <li>• Experiment with linkages adjusting the widths, lengths an &amp; thicknesses of card used.</li> <li>• Cut &amp; assemble components neatly.</li> </ul>	<ul style="list-style-type: none"> <li>• Measure, mark, cut &amp; assemble with increasing accuracy.</li> <li>• Make a model based on a chosen design.</li> </ul>	<ul style="list-style-type: none"> <li>• Follow a design brief to make a pop-up book, neatly &amp; with focus on accuracy</li> <li>• Make mechanisms &amp;/or structures using sliders, pivots &amp; folds to produce movement</li> <li>• Use layers &amp; spacers to hide the workings of mechanical parts for an aesthetically pleasing result</li> </ul>
Evaluate	<ul style="list-style-type: none"> <li>• Check how well an activity is going</li> <li>• Review how well their approach worked</li> <li>• Discuss their work as it progresses</li> <li>• Return to &amp; build on previous learning, refining ideas &amp; developing their ability to represent them</li> <li>• Share their creations, explaining the process they have used.</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate different designs.</li> <li>• Test &amp; adapt a design.</li> <li>• Evaluate own designs against design criteria.</li> <li>• Use peer feedback to modify a final design.</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate the speed of a final product based on the effect of shape on speed &amp; the accuracy of workmanship on performance.</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluate the work of others &amp; receiving feedback on own work.</li> <li>• Suggest points for improvement.</li> </ul>
Technical Knowledge	<ul style="list-style-type: none"> <li>• Use technical vocab when appropriate</li> </ul>	<ul style="list-style-type: none"> <li>• Know that wheels need to be round to rotate &amp; move</li> <li>• Understand that for a wheel to move it must be attached to a rotating axle</li> <li>• Know that an axle moves within an axle holder which is fixed to the vehicle or toy</li> <li>• Know that the frame of a vehicle (chassis) needs to be balanced</li> </ul>	<ul style="list-style-type: none"> <li>• Understand how pneumatic systems work</li> <li>• Understand that pneumatic systems can be used as part of a mechanism</li> <li>• Know that pneumatic systems operate by drawing in, releasing &amp; compressing air</li> <li>• Understand that all moving things have kinetic energy</li> </ul>	<ul style="list-style-type: none"> <li>• Know that mechanisms control movement</li> <li>• Understand that mechanisms that can be used to change one kind of motion into another</li> <li>• Understand how to use sliders, pivots &amp; folds to create paper-based mechanisms</li> <li>• Understand that the mechanism in an automaton uses a system of cams, axles &amp; followers</li> </ul>

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		<ul style="list-style-type: none"><li>• Know that different materials have different properties &amp; are therefore suitable for different uses</li></ul>	<ul style="list-style-type: none"><li>• Understand that kinetic energy is the energy that something (object/person) has by being in motion</li><li>• Know that air resistance is the level of drag on an object as it is forced through the air</li><li>• Understand that the shape of a moving object will affect how it moves due to air resistance</li></ul>	<ul style="list-style-type: none"><li>• Understand that different shaped cams produce different output</li></ul>
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ELECTRICAL SYSTEMS				
	Milestone 1 – End of EYFS	Milestone 2 – End of Year 2	Milestone 3 – End of Year 4	Milestone 4 – End of Year 6
Design			<ul style="list-style-type: none"> <li>Design a torch, considering the target audience &amp; creating both design &amp; success criteria focusing on features of individual design ideas</li> </ul>	<ul style="list-style-type: none"> <li>Identify factors that could be changed on existing products &amp; explain how these would alter the form &amp; function of the product</li> <li>Develop design criteria based on findings from investigating existing products</li> <li>Develop design criteria that clarifies the target user</li> <li>Design a steady h&amp; game - identifying &amp; naming the components require</li> <li>Draw a design from three different perspectives</li> <li>Generate ideas through sketching &amp; discussion</li> <li>Model ideas through prototypes</li> <li>Understand the purpose of products (toys), including what is meant by 'fit for purpose' &amp; 'form over function'</li> </ul>
ELECTRICAL SYSTEMS Make			<ul style="list-style-type: none"> <li>Make a torch with a working electrical circuit &amp; switch</li> <li>Use appropriate equipment to cut &amp; attach materials</li> <li>Assemble a torch according to the design &amp; success criteria</li> </ul>	<ul style="list-style-type: none"> <li>Alter a product's form &amp; function by tinkering with its configuration.</li> <li>Make a functional series circuit, incorporating a motor.</li> <li>Construct a product with consideration for the design criteria.</li> <li>Break down the construction process into steps so that others can make the product.</li> </ul>
ELECTRICAL SYSTEMS Evaluate			<ul style="list-style-type: none"> <li>Learn to give &amp; accept constructive criticism on own work &amp; the work of others</li> <li>Test the success of initial ideas against the design criteria &amp; justifying opinions</li> <li>Revisit the requirements of the client to review developing design ideas &amp; check that they fulfil their needs</li> <li>Evaluate electrical products</li> <li>Test &amp; evaluate the success of a final product &amp; taking inspiration from the world</li> </ul>	<ul style="list-style-type: none"> <li>Carry out a product analysis to look at the purpose of a product along with its strengths &amp; weaknesses</li> <li>Determine which parts of a product affect its function &amp; which parts affect its form</li> <li>Analyse whether changes in configuration positively or negatively affect an existing product</li> <li>Peer evaluate a set of instructions to build a product</li> </ul>

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				<ul style="list-style-type: none"> <li>• Test own &amp; others finished games, identifying what went well &amp; making suggestions for improvement</li> <li>• Gather images &amp; information about existing children's toys</li> <li>• Analyse a selection of existing children's toys</li> </ul>
<b>ELECTRICAL SYSTEMS</b> <b>Technical Knowledge</b>			<ul style="list-style-type: none"> <li>• Understand that an electrical system is a group of parts (components) that work together to transport electricity around a circuit</li> <li>• Understand common features of an electric product (switch, battery or plug, dials, buttons etc.)</li> <li>• List examples of common electric products (kettle, remote control etc.)</li> <li>• Understand that an electric product uses an electrical system to work (function)</li> <li>• Know the name &amp; appearance of a bulb, battery, battery holder &amp; crocodile wire to build simple circuits</li> <li>• Understand that electrical conductors are materials which electricity can pass through</li> <li>• Understand that electrical insulators are materials which electricity cannot pass through</li> <li>• Know that a battery contains stored electricity that can be used to power products</li> <li>• Know that an electrical circuit must be complete for electricity to flow</li> <li>• Know that a switch can be used to complete &amp; break an electrical circuit</li> </ul>	<ul style="list-style-type: none"> <li>• Know that series circuits only have one direction for the electricity to flow</li> <li>• Know when there is a break in a series circuit, all components turn off</li> <li>• Know that an electric motor converts electrical energy into rotational movement, causing the motor's axle to spin</li> <li>• Know a motorised product is one which uses a motor to function</li> <li>• Know that batteries contain acid, which can be dangerous if they leak</li> <li>• Know the names of the components in a basic series circuit including a buzzer</li> </ul>

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DIGITAL WORLD				
	Milestone 1 – End of EYFS	Milestone 2 – End of Year 2	Milestone 3 – End of Year 4	Milestone 4 – End of Year 6
<b>DIGITAL WORLD</b>  <b>Design</b>			<u><b>ELECTRONIC CHARM (AUTUMN 2: YEAR B)</b></u> <ul style="list-style-type: none"> <li>• Problem solve by suggesting potential features on a Micro: bit &amp; justifying my ideas.</li> <li>• Develop design ideas for technology pouch.</li> <li>• Draw &amp; manipulate 2D shapes, using computer-aided design, to produce a point of sale badge.</li> </ul>	<u><b>NAVIGATING THE WORLD (SUMMER 1: YEAR A)</b></u> <ul style="list-style-type: none"> <li>• Write a design brief from information submitted by a client.</li> <li>• Develop design criteria to fulfil the client's request.</li> <li>• Consider &amp; suggest additional functions for my navigation tool.</li> <li>• Develop a product idea through annotated sketches.</li> <li>• Place &amp; manoeuvre 3D objects, using CAD.</li> <li>• Change the properties of, or combine one or more 3D objects, using CAD.</li> </ul>
<b>DIGITAL WORLD</b>  <b>Make</b>			<ul style="list-style-type: none"> <li>• Use a template when cutting &amp; assembling the pouch</li> <li>• Follow a list of design requirement</li> <li>• Select &amp; use the appropriate tools &amp; equipment for cutting, joining, shaping &amp; decorating a foam pouch</li> <li>• Apply functional features such as using foam to create soft buttons</li> </ul>	<ul style="list-style-type: none"> <li>• Consider materials &amp; their functional properties, especially those that are sustainable &amp; recyclable (for example, cork &amp; bamboo)</li> <li>• Explain material choices &amp; why they were chosen as part of a product concept</li> <li>• Programme an N,E, S,W cardinal compass</li> </ul>
<b>DIGITAL WORLD</b>  <b>Evaluate</b>			<ul style="list-style-type: none"> <li>• Analyse &amp; evaluate an existing product</li> <li>• Identify the key features of a pouch</li> <li>• Investigate &amp; analyse a range of timers by identifying &amp; comparing their advantages &amp; disadvantages</li> <li>• Evaluate my micro:bit program against points on my design criteria &amp; amend them to include any changes I made</li> <li>• Document &amp; evaluate my project</li> <li>• Understanding what a logo is &amp; why they are important in the world of design &amp; business</li> <li>• Test my program for bugs (errors in the code)</li> <li>• Find &amp; fix the bugs (debug) in my code</li> </ul>	<ul style="list-style-type: none"> <li>• State an event or fact from the last 100 years of plastic history</li> <li>• Explain how plastic is affecting planet Earth &amp; suggest ways to make more sustainable choices</li> <li>• Explain key functions in my program (audible alert, visuals)</li> <li>• Explain how my product would be useful for an animal carer including programmed feature</li> <li>• Explain how my program fits the design criteria &amp; how it would be useful as part of a navigation tool</li> <li>• Develop an awareness of sustainable design</li> <li>• Identify key industries that utilise 3D CAD modelling &amp; explain why</li> </ul>



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				<ul style="list-style-type: none"> <li>Describe how the product concept fits the client's request &amp; how it will benefit the customers</li> <li>Explain the key functions in my program, including any additions</li> <li>Explain how my program fits the design criteria &amp; how it would be useful as part of a navigation tool</li> <li>Explain the key functions &amp; features of my navigation tool to the client as part of a product concept pitch</li> <li>Demonstrate a functional program as part of a product concept</li> </ul>
<b>DIGITAL WORLD</b>  <b>Technical Knowledge</b>			<ul style="list-style-type: none"> <li>Understand that in programming a 'loop' is code that repeats something again &amp; again until stopped</li> <li>Know that a Micro:bit is a pocket-sized, codeable computer</li> <li>Write a program to control (button press) &amp;/or monitor (sense light) that will initiate a flashing LED algorithm</li> <li>Understand what variables are in programming</li> <li>Know some of the features of a Micro:bit</li> <li>Know that an algorithm is a set of instructions to be followed by the computer</li> <li>Know that it is important to check my code for errors (bugs)</li> <li>Know that a simulator can be used as a way of checking your code works before installing it onto an electronic device</li> </ul>	<ul style="list-style-type: none"> <li>Know that a 'device' means equipment created for a certain purpose or job &amp; that monitoring devices observe &amp; record</li> <li>Know that a sensor is a tool or device that is designed to monitor, detect &amp; respond to changes for a purpose</li> <li>Understand that conditional statements (&amp;, or, if Booleans) in programming are a set of rules which are followed if certain conditions are met</li> <li>Know that accelerometers can detect movement</li> <li>Understand that sensors can be useful in products as they mean the product can function without human input</li> </ul>

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<b>COOKING &amp; NUTRITION</b>				
	<b>Milestone 1 – End of EYFS</b>	<b>Milestone 2 – End of Year 2</b>	<b>Milestone 3 – End of Year 4</b>	<b>Milestone 4 – End of Year 6</b>
<b>Design</b>	<ul style="list-style-type: none"> <li>Design a healthy “plate”; lunchbox; snack</li> </ul>	<ul style="list-style-type: none"> <li>Design a smoothie carton packaging by-hand or on ICT software</li> <li>Design a healthy wrap based on a food combination which work well together.</li> </ul>	<ul style="list-style-type: none"> <li>Create a healthy &amp; nutritious recipe for a savoury tart using seasonal ingredients, considering the taste, texture, smell &amp; appearance of the dish</li> <li>Design a biscuit within a given budget, drawing upon previous taste testing</li> </ul>	<ul style="list-style-type: none"> <li>Adapt a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients</li> <li>Write an amended method for a recipe to incorporate the relevant changes to ingredients</li> <li>Design appealing packaging to reflect a recipe</li> <li>Write a recipe, explaining the key steps, method &amp; ingredients Including facts &amp; drawings from research undertaken</li> </ul>
<b>Make</b>	<ul style="list-style-type: none"> <li>Chop fruit &amp; vegetables with support</li> <li>Practise stirring, mixing, pouring, blending</li> <li>Begin to understand some food preparation tools, techniques &amp; processes</li> <li>Measure &amp; weigh food items, non-statutory measures e.g. spoons, cups.</li> </ul>	<ul style="list-style-type: none"> <li>Chop fruit &amp; vegetables safely to make a smoothie</li> <li>Identify if a food is a fruit or a vegetable</li> <li>Learn where &amp; how fruits &amp; vegetables grow</li> <li>Slice food safely using the bridge or claw grip</li> <li>Construct a wrap that meets a design brief</li> </ul>	<ul style="list-style-type: none"> <li>Know how to prepare themselves &amp; a work space to cook safely in, learning the basic rules to avoid food contamination.</li> <li>Follow the instructions within a recipe.</li> <li>Cook safely, following basic hygiene rules</li> <li>Adapt a recipe deciding what can be changed successfully</li> </ul>	<ul style="list-style-type: none"> <li>Cut &amp; prepare vegetables safely.</li> <li>Use equipment safely, including knives, hot pans &amp; hobs.</li> <li>Know how to avoid cross-contamination.</li> <li>Follow a step by step method carefully to make a recipe</li> <li>Follow a recipe, including using the correct quantities of each ingredient</li> <li>Adapt a recipe based on research</li> <li>Work to a given timescale</li> <li>Work safely &amp; hygienically with independence</li> </ul>
<b>Evaluate</b>	<ul style="list-style-type: none"> <li>Evaluate choices made e.g. would a fizzy drink or water be a healthier choice.</li> </ul>	<ul style="list-style-type: none"> <li>Taste &amp; evaluate different food combinations</li> <li>Describe appearance, smell &amp; taste</li> <li>Suggest information to be included on packaging</li> <li>Describe the taste, texture &amp; smell of fruit &amp; vegetables</li> <li>Taste testing food combinations &amp; final products</li> </ul>	<ul style="list-style-type: none"> <li>Establish &amp; use design criteria to help test &amp; review dishes</li> <li>Describe the benefits of seasonal fruits &amp; vegetables &amp; the impact on the environment</li> <li>Suggest points for improvement when making a seasonal tart</li> <li>Evaluate a recipe, considering: taste, smell, texture &amp; appearance</li> </ul>	<ul style="list-style-type: none"> <li>Identify the nutritional differences between different products &amp; recipes</li> <li>Identify &amp; describing healthy benefits of food groups</li> <li>Evaluate a recipe, considering: taste, smell, texture &amp; origin of the food group</li> <li>Taste testing &amp; scoring final products</li> <li>Suggest &amp; write up points of improvements in productions</li> </ul>

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		<ul style="list-style-type: none"> <li>Describe the information that should be included on a label</li> <li>Evaluate which grip was most effective</li> </ul>	<ul style="list-style-type: none"> <li>Describe the impact of the budget on the selection of ingredients</li> <li>Evaluate &amp; compare a range of products</li> <li>Suggest modifications</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate health &amp; safety in production to minimise cross contamination</li> </ul>
Technical Knowledge	<ul style="list-style-type: none"> <li>Discuss how to make an activity safe &amp; hygienic</li> <li>Begin to develop a food vocabulary using taste, smell, texture &amp; feel.</li> <li>Understand the need for variety in food</li> <li>Begin to understand that eating well contributes to good health</li> <li>Makes healthy choices</li> <li>Know the importance for good health of a healthy diet</li> </ul>	<ul style="list-style-type: none"> <li>Describe textures</li> <li>Wash hands &amp; clean surfaces &amp; begin to explain hygiene &amp; begin to keep a hygienic work space.</li> <li>Say where some foods come from, (i.e. plant, animal, underground)</li> <li>Describe differences between some food groups (i.e. sweet, vegetable etc.)</li> <li>Discuss how fruit &amp; vegetables are healthy</li> <li>Cut &amp; peel safely, with support</li> <li>Describe how food is farmed or grown</li> <li>Describe “five a day”</li> <li>Use the basic principles of a healthy &amp; varied diet to prepare dishes</li> <li>Understand where food comes from.</li> </ul>	<ul style="list-style-type: none"> <li>Create a healthy &amp; nutritious recipe using seasonal ingredients, considering the taste, texture, smell &amp; appearance of the dish.</li> </ul>	<ul style="list-style-type: none"> <li>Adapt a traditional recipe, understanding that the nutritional value of a recipe alters if you remove, substitute or add additional ingredients.</li> </ul>

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TEXTILES				
	Milestone 1 – End of EYFS	Milestone 2 – End of Year 2	Milestone 3 – End of Year 4	Milestone 4 – End of Year 6
<b>Design</b>	<ul style="list-style-type: none"> <li>Discussing what a good design needs.</li> <li>Choose from available materials.</li> <li>Explore, sort &amp; group textiles by texture, colour etc</li> </ul>	<ul style="list-style-type: none"> <li>Cut fabric neatly with scissor</li> <li>Use joining methods</li> <li>Sequence steps taken during construction</li> </ul>	<ul style="list-style-type: none"> <li>Design &amp; make a template &amp; apply individual design criteria</li> <li>Write design criteria for a product, articulating decisions made</li> <li>Design a personalised book sleeve</li> </ul>	<ul style="list-style-type: none"> <li>Use a template when cutting fabric to ensure they achieve the correct shape.</li> <li>Use pins effectively to secure a template to fabric without creases or bulges.</li> <li>Mark &amp; cut fabric accurately, in accordance with their design.</li> <li>Sew a strong running stitch, making small, neat stitches &amp; following the edge.</li> <li>Tie strong knots.</li> <li>Decorate a waistcoat, attaching features (such as appliqué) using thread.</li> <li>Finish the waistcoat with a secure fastening (such as buttons).</li> <li>Learn different decorative stitches.</li> <li>Sew accurately with evenly spaced, neat stitches.</li> </ul>
<b>Make</b>	<ul style="list-style-type: none"> <li>Develop fine motor/cutting skills with scissors.</li> <li>Explore fine motor/threading &amp; weaving (under, over technique) with a variety of materials.</li> <li>Use a prepared needle &amp; wool to practise threading</li> <li>Apply simple finishing techniques</li> </ul>	<ul style="list-style-type: none"> <li>Cut fabric neatly with scissors</li> <li>Use joining methods to decorate a puppet</li> <li>Sequence steps for construction</li> <li>Select &amp; cut fabrics for sewing</li> <li>Decorate a pouch using fabric glue or running stitch</li> <li>Thread a needle</li> <li>Sew running stitch, with evenly spaced, neat, even stitches to join fabric</li> <li>Neatly pinning &amp; cutting fabric using a template</li> </ul>	<ul style="list-style-type: none"> <li>Follow design criteria to create a cushion or Egyptian collar</li> <li>Select &amp; cut fabrics with ease using fabric scissors</li> <li>Thread needles with greater independence</li> <li>Tie knots with greater independence</li> <li>Sew cross stitch to join fabric</li> <li>Decorate fabric using applique</li> <li>Complete design ideas with stuffing &amp; sewing the edges (Cushions) or embellishing the collars based on design ideas (Egyptian collars)</li> <li>Make &amp; test a paper template with accuracy &amp; in keeping with the design criteria</li> <li>Measure, mark &amp; cut fabric using a paper template</li> </ul>	<ul style="list-style-type: none"> <li>Create a 3D stuffed toy from a 2D design</li> <li>Measure, mark &amp; cut fabric accurately &amp; independently</li> <li>Create strong &amp; secure blanket stitches when joining fabric</li> <li>Thread needles independently</li> <li>Use applique to attach pieces of fabric decoration</li> <li>Sew blanket stitch to join fabric</li> <li>Apply blanket stitch so the space between the stitches are even &amp; regular</li> <li>Use a template when pinning panels onto fabric</li> <li>Mark &amp; cut fabric accurately, in accordance with a design</li> <li>Sew a strong running stitch, making small, neat stitches &amp; following the edge</li> <li>Tie strong knots</li> </ul>

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			<ul style="list-style-type: none"> <li>Select a stitch style to join fabric, working neatly sewing small neat stitches</li> <li>Incorporate fastening to a design</li> </ul>	<ul style="list-style-type: none"> <li>Decorate a waistcoat -attaching objects using thread &amp; adding a secure fastening</li> <li>Learn different decorative stitches</li> <li>Sew accurately with even regularity of stitches</li> </ul>
<b>Evaluate</b>	<ul style="list-style-type: none"> <li>Talk about the finished product</li> </ul>	<ul style="list-style-type: none"> <li>Reflect upon a finished product, explaining likes &amp; dislikes</li> <li>Troubleshoot scenarios posed by teacher</li> <li>Evaluate the quality of the stitching on others' work</li> <li>Discuss as a class, the success of their stitching against the success criteria</li> <li>Identify aspects of their peers' work that they particularly like &amp; why</li> </ul>	<ul style="list-style-type: none"> <li>Evaluate an end product &amp; think of other ways in which to create similar items</li> <li>Test &amp; evaluate an end product against the original design criteria</li> <li>Decide how many of the criteria should be met for the product to be considered successful</li> <li>Suggest modifications for improvement</li> <li>Articulate the advantages &amp; disadvantages of different fastening types</li> </ul>	<ul style="list-style-type: none"> <li>Test &amp; evaluate an end product &amp; giving point for further improvements</li> <li>Evaluate work continually as it is created</li> </ul>
<b>Technical Knowledge</b>	<ul style="list-style-type: none"> <li>Handle tools &amp; materials safely</li> <li>Use simple tools to effect changes in materials.</li> <li>Explore a range of materials, tools &amp; techniques.</li> <li>Construct with a purpose in mind using a range of resources.</li> <li>Select tools &amp; techniques in order to assemble &amp; join materials</li> <li>Manipulate materials to create a planned effect.</li> </ul>	<ul style="list-style-type: none"> <li>Know that 'joining technique' means connecting two pieces of material together</li> <li>Know that there are various temporary methods of joining fabric by using staples, glue or pins</li> <li>Understand that different techniques for joining materials can be used for different purposes</li> <li>Understand that a template (or fabric pattern) is used to cut out the same shape multiple times</li> <li>Know that drawing a design idea is useful to see how an idea will look</li> <li>Know that sewing is a method of joining fabric</li> <li>Know that different stitches can be used when sewing</li> <li>Understand the importance of tying a knot after sewing the final stitch</li> <li>Know that a thimble can be used to protect my fingers when sewing</li> </ul>	<ul style="list-style-type: none"> <li>Know that applique is a way of mending or decorating a textile by applying smaller pieces of fabric</li> <li>Know that when two edges of fabric have been joined together it is called a seam</li> <li>Know that it is important to leave space on the fabric for the seam</li> <li>Understand that some products are turned inside out after sewing so the stitching is hidden</li> <li>Know that a fastening is something which holds two pieces of material together for example a zipper, toggle, button, press stud &amp; Velcro</li> <li>Know that different fastening types are useful for different purposes</li> <li>Know that creating a mock up (prototype) of their design is useful for checking ideas &amp; proportions</li> </ul>	<p>Know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric</p> <p>Understand that it is easier to finish simpler designs to a high standard</p> <p>Know that soft toys are often made by creating appendages separately &amp; then attaching them to the main body</p> <p>Know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong &amp; holds the stuffing securely</p> <p>Understand that it is important to design clothing with the client/ target customer in mind</p> <p>Know that using a template (or clothing pattern) helps to accurately mark out a design on fabric</p> <p>Understand the importance of consistently sized stitches</p>