

	Topic	Curriculum Links	Aims/Activity	National Curriculum Skills	Pupil Knowledge	Vocab
Autumn	Healthy Humans	Science	Children will evaluate, design and make different foods that could form part of a healthy picnic.	<ul style="list-style-type: none"> <li>Develop sensory vocabulary/knowledge using, smell, taste, texture and feel.</li> <li>Analyse the taste, texture, smell and appearance of a range of foods (predominantly savoury).</li> <li>Follow instructions/recipes.</li> <li>Make healthy eating choices – use the <i>Eatwell plate</i>.</li> <li>Join and combine a range of ingredients.</li> <li>Investigate similar products to the one to be made to give starting points for a design.</li> <li>Consider and explain how the finished product could be improved.</li> </ul>	<ul style="list-style-type: none"> <li>A recipe is a set of instructions for making foods.</li> <li>I can follow instructions.</li> <li>I understand the principles of the eatwell plate.</li> <li>I can join and combine ingredients together effectively for flavour.</li> <li>I know that fruit and vegetables are seasonal and I know what this means.</li> <li>I can chop, boil and dice.</li> <li>I can make healthy choices about the foods I eat.</li> <li>I have looked at recipes by a known chef.</li> </ul>	<ul style="list-style-type: none"> <li>Smell</li> <li>Taste</li> <li>Texture</li> <li>Feel</li> <li>Savoury</li> <li>Sweet</li> <li>Picnic</li> <li>Protein</li> <li>Sugar</li> <li>Carbohydrate</li> <li>Fat</li> <li>Vitamins</li> <li>Minerals</li> <li>Chop</li> <li>Boil</li> <li>Dice</li> </ul>
Spring	The Iron Man	English	Children will explore a range of Levers and Linkages contained within a selection of Pop Up books.	<ul style="list-style-type: none"> <li>Develop more than one design or adaptation of an initial design.</li> <li>Plan a sequence of actions to make a product.</li> </ul>	<ul style="list-style-type: none"> <li>I can make a story board and explain its purpose.</li> </ul>	<ul style="list-style-type: none"> <li>Lever</li> <li>Linkage</li> <li>Mechanical</li> <li>Slots</li> </ul>

			<p>They will then design and make a Pop-up book or story board with moving parts that links to the text 'The Iron Man'.</p>	<ul style="list-style-type: none"> <li>Record the plan by drawing using annotated sketches.</li> <li>Begin to use cross-sectional and exploded diagrams.</li> <li>Use prototypes to develop and share ideas.</li> <li>Think ahead about the order of their work and decide upon tools and materials.</li> <li>Propose realistic suggestions as to how they can achieve their design ideas.</li> <li>Consider aesthetic qualities of materials chosen.</li> <li>Prepare pattern pieces as templates for their design.</li> <li>Cut slots.</li> <li>Cut internal shapes.</li> <li>Select from a range of tools for cutting shaping joining and finishing.</li> <li>Use tools with accuracy.</li> <li>Select from techniques for different parts of the process.</li> <li>Select from materials according to their functional properties.</li> <li>Plan the stages of the making process.</li> <li>Use appropriate finishing techniques.</li> <li>Investigate similar products to the one to be made to give starting points for a design.</li> </ul>	<ul style="list-style-type: none"> <li>I can talk about and make a range of linkages.</li> <li>I know how to make a lever with a pivot point.</li> <li>I take pride in my finished product and complete it to the best of my ability.</li> <li>I can measure accurately.</li> <li>I can draw a diagram with labels.</li> </ul>	<ul style="list-style-type: none"> <li>Sequence</li> <li>Accurate</li> <li>Pop-up</li> <li>Pivot</li> <li>Robust</li> </ul>
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Summer	How Does Your Garden Grow?	Science Maths	Children will design and make a card prototype miniature windowsill-planting box, leading to one being made from a stronger material such as balsa wood.	<ul style="list-style-type: none"> <li>▪ Develop more than one design or adaptation of an initial design.</li> <li>▪ Plan a sequence of actions to make a product.</li> <li>▪ Record the plan by drawing using annotated sketches.</li> <li>▪ Begin to use cross-sectional and exploded diagrams.</li> <li>▪ Use prototypes to develop and share ideas.</li> <li>▪ Think ahead about the order of their work and decide upon tools and materials.</li> <li>▪ Propose realistic suggestions as to how they can achieve their design ideas.</li> <li>▪ Consider aesthetic qualities of materials chosen.</li> <li>▪ Prepare pattern pieces as templates for their design.</li> <li>▪ Select from a range of tools for cutting shaping joining and finishing.</li> <li>▪ Use tools with accuracy.</li> <li>▪ Select from techniques for different parts of the process.</li> </ul>	<ul style="list-style-type: none"> <li>▪ I can investigate a range of products.</li> <li>▪ I can make a basic frame.</li> <li>▪ I know how to and can strengthen a frame.</li> <li>▪ I can recognise and use a diagonal strut.</li> <li>▪ I can select the correct tools.</li> <li>▪ I can use tools safely and effectively.</li> <li>▪ I can make my own template and use it.</li> <li>▪ I can measure accurately.</li> <li>▪ I understand that a structure with a wide base is more stable.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Investigate</li> <li>▪ Product</li> <li>▪ Template</li> <li>▪ Design brief</li> <li>▪ Frame</li> <li>▪ Strengthen</li> <li>▪ Diagonal strut</li> <li>▪ Stable</li> <li>▪ Measure</li> <li>▪ Cut</li> <li>▪ Saw</li> <li>▪ Glue</li> </ul>

				<ul style="list-style-type: none"> <li>▪ Select from materials according to their functional properties.</li> <li>▪ Plan the stages of the making process.</li> <li>▪ Use appropriate finishing techniques.</li> <li>▪ Develop vocabulary related to the project.</li> <li>▪ Create shell or frame structures.</li> <li>▪ Strengthen frames with diagonal struts.</li> <li>▪ Make structures more stable by giving them a wide base.</li> <li>▪ Measure and mark square section, strip and dowel accurately to 1cm.</li> <li>▪ Identify the strengths and weaknesses of their design ideas in relation to purpose/user.</li> </ul>		
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