

of your product

• with help, measure, cut

and score with some

DESIGNING	MAKING	EVALUATING	TECHNICAL KNOWLEDGE	FOOD TECHNOLOGY
<ul> <li>design a product</li> <li>research different products and know which materials have been used.</li> <li>begin to develop your own ideas through drawings</li> <li>design an initial idea, which has one moving part</li> </ul>	<ul> <li>use own ideas to make a product</li> <li>make a product which is based on another but unique to you</li> <li>build structures and know how they can be made stronger, stiffer and more stable</li> <li>choose appropriate resources and tools to make your model</li> <li>explore the use of</li> </ul>	<ul> <li>talk about how something works</li> <li>adapt a product to make improvements</li> <li>describe how your product works</li> <li>talk about what works well and not so well</li> <li>explain any changes you might make</li> </ul>	<ul> <li>make a stable model</li> <li>make your own model stronger</li> <li>make a product that has at least one moving part</li> <li>make a product that incorporates a lever</li> </ul>	use a knife and fork  e.g make a sandwich (English)
	<ul> <li>different mechanisms (lever) in your products.</li> <li>with help, measure, mark out and cut a range of materials.</li> <li>begin to use simple finishing techniques to improve the appearance of their products.</li> </ul>			
<ul> <li>order the main stages of making a product and make a success criteria</li> <li>explain your choices of materials and their function.</li> <li>understand the purpose</li> </ul>	<ul> <li>choose tools carefully and explain why you are using them</li> <li>build structures and know how they can be made stronger, stiffer, and more stable.</li> </ul>	<ul> <li>evaluate your work against the success criteria you made</li> <li>start to evaluate your products as they are developed, identifying strengths and possible</li> </ul>	<ul> <li>make a model stronger and more stable</li> <li>use wheels and axles</li> </ul>	

changes you might

## St. Marys Design and Technology Progression of skills



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<ul> <li>draw a simple design and label the parts of your product</li> <li>use research to create</li> </ul>	<ul> <li>start to assemble, join and combine materials in order to make a product.</li> <li>use simple sewing techniques including cutting, shaping and joining fabric</li> <li>follow a step-by-step</li> </ul>	<ul> <li>explain how to improve a</li> </ul>	Create a product that	
<ul> <li>ideas and refine them to develop a success criteria</li> <li>prove that a design meets a set criteria</li> <li>draw an annotated design with labels that detail your material choices and suitability of the given materials</li> <li>know about engineers who have developed ground breaking structures.</li> </ul>	<ul> <li>plan, choosing the right equipment and materials</li> <li>select the most appropriate tools and techniques for a given task</li> <li>choose finishing techniques to improve the appearance of your product using a range of equipment</li> <li>know that you can change things when making the product if they will help improve your work.</li> <li>understand that mechanical systems (pulley) create movement.</li> </ul>	<ul> <li>finished model</li> <li>know why a model has, or has not, been successful</li> <li>evaluate your product against the original design criteria (e.g. how well does it meet its intended purpose).</li> </ul>	incorporates a pulley mechanism. • use a simple IT program within the design	



## EYFS Year 1 Year 2 Year 3 Year 4 Year 5 Year 6

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<ul> <li>research Roman weapons before designing the product.</li> <li>produce a plan and explain how the lever will work.</li> <li>communicate ideas through annotated sketches that show different viewpoints of the product</li> <li>produce a plan and explain the use of materials, equipment and processes</li> </ul>	<ul> <li>know which material is likely to give the best outcome based on its properties</li> <li>mark, measure and cut accurately a range of materials using appropriate tools, equipment and techniques.</li> <li>start to join and combine materials and components accurately in temporary and permanent ways.</li> <li>know how mechanical systems (such as levers) create movement.</li> <li>understand how to reinforce and strengthen a 3D framework.</li> <li>sew, weave or knit using a range of stitches</li> <li>hnos saw on a buffor</li> <li>know how simple electrical circuit and components can be used to create functional products.</li> </ul>	<ul> <li>evaluate your product, carrying out appropriate tests.</li> <li>be able to disassemble and evaluate familiar products and consider the views of others to improve them.</li> </ul>	<ul> <li>create a product that incorporates at least one lever.</li> <li>use appropriate sewing techniques.</li> <li>link scientific knowledge by using lights, switches or buzzers</li> <li>use IT where appropriate to add to the quality of the product.</li> </ul>	



## EYFS Year 1 Year 2 Year 3 Year 4 Year 5 Year 6

research products similar     make a prototype before     suggest alternative plans;     use a gear system within
to the one they are intending to design Evaluate other products strengths and weaknesses and incorporate this into your design • produce a detailed, step-by-step plan • create annotated 3D designs of their product (using squared paper) from a range of viewpoints.



## EYFS Year 1 Year 2 Year 3 Year 4 Year 5 Year 6

<ul> <li>use market research of existing products to inform your design</li> <li>draw detailed 3D designs using exploded diagrams to display finer details</li> <li>know how much products cost and make choices accordingly.</li> <li>Choose materials relating to recycling and sustainability</li> <li>explain why a specific tool is best for a specific action</li> <li>make modifications as you make your product explain your reasons</li> <li>explain your product explain your products using permanent joining to create movement</li> <li>explain gene products with specified audience</li> <li>evaluate product against clear criteria</li> <li>evaluate their work both during and at the end of the assignment.</li> <li>use mechanical systems such as levers, pulleys and gears competently to create movement</li> <li>explain your reasons</li> <li>use mechanical systems</li> <li>use mechanical systems</li></ul>