

St Teresa's Catholic Primary School

Knowledge Progression Map

D.T						
Substantive knowledge – I know						
Disciplinary knowledge – I know that because						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Designing and Evaluating	<p>I know how to create simple designs for a product.</p> <p>I know that I can ask questions about products and designs to further my learning.</p>	<p>I know how to use pictures and words to describe a product.</p> <p>I know that I can ask questions about designs I have made to alter my work.</p>	<p>I know how to create designs, sketches and diagrams and how I can annotate them to explain what I think.</p> <p>I know how to investigate and evaluate existing products and those made considering a range of factors.</p> <p>I know that because I can create designs using computer programmes as well as my sketchbook.</p>	<p>I know how to create designs using exploded diagrams.</p> <p>I know that products can be used for a variety of purposes and audiences.</p> <p>I know that because I can use my knowledge of existing products to extend my learning to design a product for a particular use or audience.</p> <p>I know that because I can evaluate products and suggest improvements.</p>	<p>I know how to research existing products and market research to inform designs.</p> <p>I know how to create prototypes to show intentions.</p> <p>I know that I can design and plan stages of design demonstrating using my knowledge of materials, tools and techniques.</p>	<p>I know how to refine and improve functionality and qualities of a product.</p> <p>I know that I can generate, model and discuss my ideas through discussions, sketches, diagrams, prototypes, patterns pieces and computers.</p> <p>I know that I can use research I have done to inform my own designs and how to explain my designs.</p> <p>I know how I can use my skills to help improve my design.</p>
Cooking and Nutrition	<p>I know and understand food comes from and can give examples of what food is grown.</p> <p>I know that I can talk about what food is</p>	<p>I know how to use simple tools to help prepare food safely. (knives for chopping, graters, weighing scales. Etc.)</p>	<p>YR 3: United Nations Goal: Zero Hunger</p> <p>I know and understand that food is grown in Europe and the wider world.</p>	<p>YR 4: United Nations Goal: Responsible consumption and production.</p> <p>I know and understand what makes a healthy and balanced diet</p>	<p>Yr 5 United Nations Goal: Health and Well – being.</p> <p>I know how to select appropriate ingredients and use learned</p>	<p>I know how to prepare and cook savoury dishes.</p> <p>I know how to use seasoning.</p>

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	<p>being eaten at home and begin to discuss what healthy food is.</p>		<p>I know about different food groups and name food from each group.</p> <p>I know that I can use ingredients and techniques to prepare these safely.</p> <p>I know that food can be transported between countries.</p>	<p>through different food groups.</p> <p>I know that I can follow recipes that involve several process, skills and techniques.</p>	<p>techniques to combine them.</p> <p>I know that ingredients are grown, reared, caught and processed to make them safe and tasty to eat.</p> <p>I know that I can identify the main food groups and nutrients that are important for health.</p>	<p>I know that I can apply my knowledge of ingredients and technical skills.</p> <p>I know that I can use information on food labels to inform my choices.</p> <p>I know that I can plan a series of healthy meals based on a varied diet.</p>
Materials	<p>I know how to use tools safely and sensibly.</p> <p>I know I can select from a range of tools and equipment. For different purposes.</p>	<p>I know how to build structures and how I can use different materials to explore different variables. (strength, flexibility and stability. Etc)</p> <p>I know that by selecting different tools and equipment I can perform certain skills. (Cutting, sticking, joining, shaping, finishing.)</p>	<p>I know how to safely measure, mark out, cut, assemble and join materials.</p> <p>I know how to make suitable choices from a variety of tools and unfamiliar materials.</p> <p>I know how to strengthen frames and diagonal struts.</p> <p>I know that I can use a variety of techniques to help me with my planning.</p>	<p>I know how to use my knowledge of techniques and functions to help me plan and develop my own ideas.</p> <p>I know that I can use techniques to cut, join and finish my work.</p> <p>I know that I can apply what I have learnt to explore my own ideas.</p>	<p>I know how to make precise measurements so that joints, holes and openings are in the right place.</p> <p>I know how to build more complex 3D structures.</p> <p>I know that I can apply my knowledge of strengthening techniques to make stronger or more stable</p>	<p>I know how to use a variety of methods to strengthen, stiffen and reinforce structures</p> <p>I know that I can apply different materials and techniques to refine my work.</p> <p>.</p>

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<p>Mechanisms</p>	<p>I know how wheels and axels work.</p> <p>I know that I can use wheels to move objects. I can link this to what I have seen in my experiences.</p>	<p>I know how pulleys, lever and sliders work and what they can be used for. I can link this to what I have learned at school. (i.e. in history for castle gates)</p> <p>I know that I can use different objects and resources to build structures.</p>	<p>I know how systems such as levers, linkages and pneumatic systems create movement.</p> <p>I know that there are different purposes for levers, linkages and pneumatic systems.</p> <p>I know that I can create movement for different reasons.</p>	<p>I know how gears, pulleys, cams, levers and linkages work.</p> <p>I know that I can use them for different purposes.</p> <p>I know how I can alter my work.</p>	<p>Yr 5 – I know that I am learning about increasingly complex mechanisms and electrical systems building on previous year group skills.</p>	
<p>Textiles</p>	<p>I know how to design, make and improve on a product.</p> <p>I know that I can use my sketchbooks to plan.</p>	<p>I know how to use a basic stitch on a product.</p> <p>I know that I can use a needle and thread. I know what I need to do to use this equipment safely.</p>	<p>I know how to design and make a product.</p> <p>I know that I can use my own evaluation of a product to improve it.</p>	<p>I know how to design and make a product.</p> <p>I know that I can use my own evaluation of a product to improve it.</p>	<p>I know how to design and make a product.</p> <p>I know that I can evaluate my product to help improve it.</p>	<p>I know how to use all my skills and knowledge I have learnt to create, design, evaluate and improve a product.</p>
<p>Electronics</p>				<p>I know how to use electrical systems in products.</p> <p>I know that electrical systems can have different purposes and can be used for a particular purpose or audience.</p>	<p>I know I can learn about more complex electrical systems.</p>	<p>I know how to use an electrical system in products and can incorporate switches, bulbs, buzzers and motors.</p> <p>I know that I can understand why electrical systems have different purposes.</p>

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						I know I can research and use what I have learned to improve my work.
Computing	Refer to the computing map.	Refer to computing map.				