



St. Joseph's Catholic Academy – Design Technology Progression of Skills & Year Group End Points

Nursery	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<p>To make representations using a variety of recycled materials</p> <p>Mix pre-prepared ingredients with the support of an adult, safely and hygienically</p> <p>Stick and decorate textiles with support</p>	<p>To make representations using a variety of recycled materials</p> <p>Mix pre-prepared ingredients with the support of an adult, safely and hygienically</p> <p>Use kitchen utensils for their intended purpose</p> <p>Stick and decorate textiles with support</p> <p>To explore different patterns and decorate textiles with support</p>	<p>Describe the purpose and intended user for the products they design and make</p> <p>Develop a simple design criteria as part of the class</p> <p>Make simple drawings for their design with simple labels</p> <p>Plan by suggesting what to do next</p> <p>Begin to identify and name which tools and materials they will need and explain why they have made these selections</p> <p>Describe the characteristics of materials and components that they use</p> <p>Cut, shape, assemble, join and combine materials with developing accuracy: scissors, glue, tape</p> <p>Use basic food handling, hygienic</p>	<p>Describe the purpose and intended user for the products they design and make</p> <p>Develop a simple design criteria with some degree of independence</p> <p>Make simple drawings for their design and label parts in more detail</p> <p>Begin to select tools and materials; using vocabulary to name and describe them</p> <p>Measure, cut and score with some accuracy: wood, card, paper and fabric</p> <p>Use hand tools safely and appropriately: junior hacksaws, glue guns, scissors, needles</p> <p>Assemble, join and combine materials, including using basic sewing techniques</p>	<p>Generate ideas for an item, considering its purpose and the user</p> <p>Use their research to develop their own design criteria</p> <p>Use annotated sketches to develop their ideas, indicating the features that will appeal to intended users</p> <p>Develop a clear idea of what has to be done, and in what order</p> <p>Select tools and techniques for making their product</p> <p>Measure, mark out, cut, score and assemble components with more accuracy</p> <p>Demonstrate hygienic food preparation and storage</p> <p>Identify whether ingredients used have been grown or reared</p> <p>Identify structural features of bridges</p>	<p>Generate ideas for an item, considering its purpose and the user</p> <p>Use their research to develop their own design criteria</p> <p>Make labelled drawings from different views showing specific features</p> <p>Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail</p> <p>Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques</p> <p>Join and combine materials and components accurately in temporary and permanent ways</p> <p>Identify and use ways of strengthening structures</p>	<p>Research products, contexts and potential users, using surveys, interviews, questionnaires and web-based resources</p> <p>Use the results of investigations and information sources, including ICT, to develop design ideas</p> <p>Draw up a specification for their design</p> <p>Communicate their ideas through detailed labelled drawings, indicating the features that will appeal to intended users and how particular parts will work</p> <p>Measure, mark out, cut, shape and join a range of materials with accuracy, using appropriate tools, equipment and techniques</p> <p>Apply the rules for basic food hygiene and other safe practices e.g.</p>	<p>Research products, contexts and potential users, using surveys, interviews, questionnaires and web-based resources</p> <p>Identify the needs, wants, preferences and values of particular individuals and groups</p> <p>Use the results of investigations and information sources, including ICT, to develop design ideas</p> <p>Draw up a specification for their design</p> <p>Communicate their ideas through detailed labelled drawings, indicating the features that will appeal to intended users and how particular parts will work</p> <p>Plan the order of their work, choosing appropriate materials, tools and techniques, and suggesting alternative methods of</p>



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		<p>practices and personal hygiene</p> <p>Investigate and make sliders and levers</p> <p>Evaluate existing (and their own) products, describing what their purpose is, how they work, what materials are used and what they like and dislike about them</p>	<p>Follow safe procedures for food safety and hygiene</p> <p>Describe how an axle is used to enable wheels on a vehicle to turn</p> <p>Evaluate design ideas and what they are making, identifying strengths and possible changes they might make</p> <p>Evaluate their products against their design criteria, saying what worked well and what could be improved</p>	<p>Think about their ideas as they make progress and be willing change things to improve their work</p> <p>Evaluate their product against the original design criteria, identifying how well it meets its intended purpose</p>	<p>Make a lever and linkage mechanism and a pulley mechanism</p> <p>Weave using a range of materials</p> <p>Measure, tape or pin, cut and join fabric with some accuracy</p> <p>Consider how well their design is meeting their intended purpose by referring to the design criteria and decide whether they need to make any changes</p> <p>Evaluate their products carrying out appropriate tests</p>	<p>hazards relating to the use of ovens</p> <p>Weigh and measure accurately (time, dry ingredients, liquids)</p> <p>Describe how seasons may affect food availability; and how food is processed into ingredients that can be eaten or used in cooking</p> <p>Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make and make necessary modifications</p> <p>Evaluate their products against the original design specification, carrying out appropriate tests</p>	<p>making if the first attempts fail</p> <p>Use tools safely and accurately to produce well-made, functioning products</p> <p>Assemble components to make working models using cams</p> <p>Construct products using permanent joining techniques to produce a high-quality finish</p> <p>Pin, sew and stitch materials together create a product</p> <p>Critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make and make necessary modifications</p> <p>Evaluate their products against the original design specification, carrying out appropriate tests</p>
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