

Year 5 Design Technology

Steps to knowing...							End Point statement
<p>What is a frame structure and what are their purpose? What examples can I find locally and around the world?</p> <p>Consider focusing on the work of a renowned designer.</p>	<p>How have they been constructed and what strengthening techniques have been used? Which materials have been chosen, why?</p> <p>How effectively do they meet the needs of their users?</p>	<p>How can I make the strongest 2D framework?</p> <p>How can frameworks be reinforced or strengthened when using 2D frames to make 3D frames?</p> <p>How can I use the appropriate tools and techniques to cut different materials (including wood)?</p>	<p>How can I create a design specification for my product, using prior learning, considering time, resources and cost?</p> <p>How can I discuss, record and present my ideas including cross sectional diagrams, annotated sketches (and prototypes)?</p>	<p>How can I justify my choices of materials according to function and aesthetics?</p> <p>How can I make my product in the right order thinking about the skills, tools and techniques I need?</p>	<p>How can I select the most appropriate tools?</p> <p>Have I used materials and techniques competently and accurately to meet my original design?</p>	<p>How can I test my finished product?</p> <p>Does my product meet the design specification?</p> <p>What are its strengths and areas for development?</p>	<p>Structures - Design, make and evaluate a purposeful, strong and stable 3D framed structure. Understand how to use a range of joining techniques appropriate to the materials and structure.</p>
<p>What is an electrical sensor (or light dependent resistor) and what part do they play</p>	<p>How have these products been designed and constructed?</p> <p>How and why is a computer control program used to</p>	<p>How can I measure, mark, cut, shape and join materials securely and finish my work well?</p>	<p>How can I use my research and knowledge to create an innovative design specification for</p>	<p>How can I create a step-by-step plan that I should take to construct my product?</p> <p>How can I select the most</p>	<p>Does my computer control program automatically respond to changes in the environment?</p>	<p>How can I test my finished product?</p> <p>Does my product meet the design specification?</p> <p>What are its strengths and</p>	<p>Electrical systems - Design, make and evaluate a purposeful product with an integrated electrical system. Use computer control systems in the product to program, monitor and control.</p>

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<p>in an electrical system?</p> <p>What examples of products that respond to changes in their environment can I find in a local or global setting?</p> <p>Consider researching the work of a famous inventor, eg: Thomas Edison.</p>	<p>operate the product?</p> <p>What input devices and output devices have been used?</p> <p>What types of circuits have been used (link to science learning) and what difference does that make?</p>	<p>How can I use the appropriate tools and equipment to make secure electrical connections?</p> <p>How should I write my control program to include inputs, outputs and decision making?</p>	<p>my product, considering the purpose and needs of the intended user?</p> <p>How can I record my ideas and design decisions through annotated sketches and detailed circuit diagrams?</p>	<p>appropriate tools, equipment and materials that I will need?</p>	<p>What changes do I need to make if the product is not fulfilling my design specification?</p>	<p>areas for development?</p>	
<p>What is meant by seasonal produce?</p> <p>What is meant by the source of a product?</p> <p>Do particular products use locally sourced, seasonal or</p>	<p>What are the key ingredients needed to make a particular product?</p> <p>Where and how have they been produced?</p> <p><i>Include the work of a renowned chef who</i></p>	<p>How do I measure out, cut, shape and combine ingredients? <i>e.g. knead, beat, rub and mix ingredients.</i></p> <p>How can I follow a recipe effectively and safely, including the use of a heat source?</p>	<p>How can we make a design brief and design specification for the purpose and user that celebrates seasonal produce?</p> <p>How can I show an innovated idea that celebrates seasonal produce</p>	<p>How can I show a clear plan for the steps, ingredients, utensils and equipment needed?</p>	<p>Can I select the utensils and equipment correctly and measure and prepare the ingredients to make my product?</p>	<p>Does my product meet the design brief and design specification?</p> <p>How can I include the views of others?</p> <p>Is there anything I might do differently next time?</p>	<p>Food - Design, make and evaluate a food product which celebrates seasonality. Demonstrate knowledge of how to use utensils (including heat sources) to prepare and cook food. Understand about seasonality in relation to food products and the source of different food products.</p>

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organic ingredients?	<i>promotes seasonality.</i>		and will meet the design specification, including annotated sketches?				e.g. Pizzas with toppings including produce grown at school/locally.
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Vocabulary
Design specification, prototype, annotated sketch, innovation, research, functional reed switch, light dependent resistor (LDR), tilt switch, light emitting diode (LED), USB cable, wire, parallel circuit yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs, fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, gluten, dairy, allergy, intolerance, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out
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