

Year 5 Curriculum subject plan Design and Technology

YEAR 5	Food Celebrating Culture and Seasonality	Structures Frame Structures	Textiles Combining Different Fabric Shapes	Electrical Systems More Complex Switches and Circuits
Component Knowledge	<ul style="list-style-type: none"> • Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification. • Explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose. • Use words, annotated sketches and information and communication technology as appropriate to develop and communicate ideas. • Select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients. • Make, decorate and present the food product appropriately for the intended user and purpose. • Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using e.g. tables/graphs/charts such as star diagrams. • Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements. • Understand how key chefs have influenced eating habits to promote varied and healthy diets. • Know how to use utensils and equipment including heat sources to prepare and cook food. • Understand about seasonality in relation to food products and the source of different food products. • Know and use relevant technical vocabulary eg, fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality. • Generate innovative ideas by carrying out research including surveys, interviews and questionnaires. • Develop, model and communicate ideas through talking, drawing, templates, mock-ups and prototypes and, where appropriate, computer-aided design. • Design purposeful, functional, appealing products for the intended user that are fit for purpose based on a simple design specification. • Produce detailed lists of equipment and fabrics relevant to their tasks. • Formulate step-by-step plans and, if appropriate, allocate tasks within a team. • Select from and use a range of tools and equipment to make products that are accurately assembled and well finished. Work within the constraints of time, resources and cost. • Investigate and analyse textile products linked to their final product. • Compare the final product to the original design specification. 			

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| | <ul style="list-style-type: none">• Test products with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.• A 3-D textile product can be made from a combination of accurately made pattern pieces, fabric shapes and different fabrics.• Understand how to strengthen, stiffen and reinforce 3-D frameworks.• Competently select from and use appropriate tools to accurately measure, mark out, cut, shape and join construction materials to make frameworks.• Communicate ideas through annotated sketches, pictorial representations of electrical circuits or circuit diagrams.• Understand and use electrical systems in their products.• Apply their understanding of computing to program, monitor and control their products.• Competently select and accurately assemble materials, and securely connect electrical components to produce a reliable, functional product. |
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