



Topic	Key knowledge / skills	DESIGN Developing, planning and communicating ideas	MAKE Working with tools, materials and components to make quality products.	EVALUATE Evaluating processes and products
Food Technology Pie	<p>To explain how their product should be stored.</p> <p>To consider the time it would take to grow and use their own produce within their cooking.</p> <p>To understand seasonality.</p> <p>To write a step-by-step recipe, including a list of ingredients, equipment and utensils.</p> <p>To be able to select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients.</p> <p>To make, decorate and present the food product appropriately for the intended user and purpose.</p>	<p>Investigate existing products and use these ideas to develop their own ideas.</p> <p>Use research and develop design criteria to inform their design.</p> <p>Design innovative, functional and appealing products that are fit for purpose.</p> <p>Design products that are aimed at particular individuals or groups.</p> <p>Take a user's view into account when designing their product.</p> <p>Generate, develop and communicate their ideas through discussion, annotated sketches and exploded diagrams.</p> <p>Produce a detailed, step-by-step plan in relation to their design and product.</p> <p>Use market research to inform the planning of their product.</p> <p>Work within constraints e.g. time frames, budgets.</p> <p>Follow their plan accurately and refine their plan if necessary.</p> <p>Justify their plan to someone else.</p> <p>Consider culture and society in their designs and products.</p>	<p>Select from and use a wider range of tools and equipment to accurately perform practical tasks, including cutting and measuring.</p> <p>Select from and use a wider range of ingredients.</p> <p>Use tools and materials precisely.</p> <p>Change the way they are working if needed.</p>	<p>Test and evaluate their final product thoroughly and effectively.</p> <p>Evaluate whether their product is fit for purpose.</p> <p>Identify and explain what would improve their product.</p> <p>Evaluate whether different resources have improved their product.</p> <p>Determine whether they would need more or different information in order to improve their product further,</p> <p>Evaluate whether their product meets all of their design criteria.</p>

Vocabulary

seasonality, storage, utensils, innovative, consider, budget, constraint, measure, design, evaluate

Resources

oven proof dishes, knives, spoons, wooden spoons, pastry brushes, chopping board, vegetable peelers



Topic	Key knowledge / skills	DESIGN Developing, planning and communicating ideas	MAKE Working with tools, materials and components to make quality products.	EVALUATE Evaluating processes and products
<p>Structures/ Mechanisms</p> <p>Fairground ride</p>	<p>To use different kinds of circuits in their product.</p> <p>To think of ways in which adding a circuit would improve their product.</p> <p>To be able to justify their design in relation to the audience.</p> <p>To be able to justify why they selected specific materials.</p> <p>To explain how they have ensured that their work is precise and accurate.</p> <p>Hide joint so as to improve the appearance of their product.</p>	<p>Investigate existing products and use these ideas to develop their own ideas.</p> <p>Use research and develop design criteria to inform their design.</p> <p>Design innovative, functional and appealing products that are fit for purpose.</p> <p>Produce a range of design ideas after collecting information.</p> <p>Design products that are aimed at particular individuals or groups.</p> <p>Take a user's view into account when designing their product.</p> <p>Generate, develop and communicate their ideas through discussion, annotated sketches and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>Produce a detailed, step-by-step plan in relation to their design and product.</p> <p>Use market research to inform the planning of their product.</p> <p>Work within constraints e.g. time frames, budgets.</p> <p>Follow their plan accurately and refine their plan if necessary.</p> <p>Justify their plan to someone else.</p> <p>Consider culture and society in their designs and products.</p>	<p>Select from and use a wider range of tools and equipment to accurately perform practical tasks, including cutting, shaping, joining and finishing.</p> <p>Select from and use a wider range of materials and components, including construction materials.</p> <p>Consider the use of the product when selecting materials.</p> <p>Apply their knowledge of how to strengthen, stiffen and reinforce more complex structures.</p> <p>Understand and use mechanical systems in their products e.g. gears, pulleys, cams, levers and linkages.</p> <p>Understand and use electrical systems in their products e.g. series circuits, bulbs, buzzers, motors.</p> <p>Apply their understanding of computing to programme, monitor and control their products.</p> <p>Use tools and materials precisely.</p> <p>Change the way they are working if needed.</p>	<p>Understand how key events and individuals in design and technology have helped shape the world.</p> <p>Investigate and analyse a range of existing products.</p> <p>Test and evaluate their final product thoroughly and effectively.</p> <p>Evaluate whether their product is fit for purpose.</p> <p>Identify and explain what would improve their product.</p> <p>Evaluate whether different resources have improved their product.</p> <p>Determine whether they would need more or different information in order to improve their product further,</p> <p>Evaluate whether their product meets all of their design criteria.</p>

Vocabulary
refine, construct, research, accurate, cutting, shaping, strengthen, reinforce, gears, pulleys, leavers, circuit, audience, precise, evaluate, analyse, design

Resources

Topic	Key knowledge / skills	DESIGN Developing, planning and communicating ideas	MAKE Working with tools, materials and components to make quality products.	EVALUATE Evaluating processes and products
<p>Textiles</p> <p>Advent calendar</p>	<p>To think about how their product could be sold.</p> <p>To be able to give consideration to what would improve their product even more.</p> <p>To use a range of tools and equipment to make products that are accurately assembled and well finished.</p> <p>To work within the constraints of time, resources and cost.</p>	<p>Investigate existing products and use these ideas to develop their own ideas.</p> <p>Use research and develop design criteria to inform their design.</p> <p>Design innovative, functional and appealing products that are fit for purpose.</p> <p>Produce a range of design ideas after collecting information.</p> <p>Design products that are aimed at particular individuals or groups.</p> <p>Take a user's view into account when designing their product.</p> <p>Generate, develop and communicate their ideas through discussion, annotated sketches and exploded diagrams, prototypes and pattern pieces.</p> <p>Produce a detailed, step-by-step plan in relation to their design and product.</p> <p>Use market research to inform the planning of their product.</p> <p>Work within constraints e.g. time frames, budgets.</p> <p>Follow their plan accurately and refine their plan if necessary.</p> <p>Justify their plan to someone else.</p> <p>Consider culture and society in their designs and products.</p>	<p>Select from and use a wider range of tools and equipment to accurately perform practical tasks, including cutting, shaping, joining and finishing.</p> <p>Select from and use a wider range of materials and components, including textiles.</p> <p>Consider the use of the product when selecting materials.</p> <p>Use tools and materials precisely.</p> <p>Change the way they are working if needed.</p>	<p>Understand how key events and individuals in design and technology have helped shape the world.</p> <p>Investigate and analyse a range of existing products.</p> <p>Test and evaluate their final product thoroughly and effectively.</p> <p>Evaluate whether their product is fit for purpose.</p> <p>Identify and explain what would improve their product.</p> <p>Evaluate whether different resources have improved their product.</p> <p>Determine whether they would need more or different information in order to improve their product further,</p> <p>Evaluate whether their product meets all of their design criteria.</p>

Vocabulary

textiles, components, cutting, joining, precise, finishing, audience, design, evaluate

Resources

cotton material, scissors, needles, cotton, fabric pens, fabric glue, pins, ribbon



South Failsworth Primary School

Year 6 Design Technology skills and progression overview

