Design and Technology Subject Content at Key Stage 2

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].

When designing and making, pupils should be taught to:

Design

- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.
- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.

Make

- Select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.
- Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.

Evaluate

- Investigate and analyse a range of existing products.
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve theirs.
- Understand how key events and individuals in design and technology have helped shape the world.

Technical knowledge

- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures.
- Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].
- Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].
- Apply their understanding of computing to program, monitor and control to their products.

Cooking and Nutrition

- Understand and apply the principles of a healthy and varied diet.
- Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.
- Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.





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Lower Key Stage 2 Design and Technology Rolling Programme

Year A		Year B	
Autumn	Edible Garden	Autumn	The Great Bread Bake Off
	Design and Make a healthy tasty meal using our harvested tomatoes.		Design and Make an innovative savoury bread roll for the harvest festival
	Cooking and Nutrition		Cooking and Nutrition
Spring	Battery Operated Light	Spring	Mechanical Posters
	Design and Make a battery operated light writing my own design criteria.		Design and Make a mechanical Poster to promote recycling.
	Electrical Systems		Mechanical Systems
Summer	Juggling Balls	Summer	Let's go Fly a Kite
	Design and Make a tie die juggling ball for a circus themed day at school.		Design and Make a kite developing my own design criteria.
	Textiles		Structures





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Upper Key Stage 2 Design and Technology Rolling Programme

Year A		Year B	
Autumn	Felt Phone Cases	Autumn	Global Food
	Design and Make a mobile phone case writing my own design criteria		Design and Make a Mexican dish using savoury rice.
	Textiles		Cooking and Nutrition
Spring	Automata Animals	Spring	Marbulous Structures
	Design and Make an animal automata having developed my own design criteria.		Design and Make a marble run for indoor play time.
	Mechanical Systems		Structures
Summer	Moon Buggy	Summer	Programming Adventures
	Design and Make a moon buggy using mechanical and electrical systems.		Design and Make an adventure map for a floor robot
	Structural, Mechanical and Electrical Systems		Applying Programming and Control