Design and Technology Overview

Year Group	Textiles	Construction Materials	Food
Year 1	Where shall we hang our bunting? Running Stitch	Can we make a picture move?	How cool is your drink?
Year 2	How can we make fabric? Weaving	Who can build the best bridge?	What makes a good sandwich?
Year 3	What sewing skills did the Victorians learn? Sewing Samplers	Can a poster be mechanical?	How do you make the perfect pizza?
Year 4	How can we upcycle our clothes? Tie Dye	Where shall we store our stationary? Linked to sustainability and conservationism.	What's seasonal about a salad?
Year 5	How could a puppet tell a story? Links to Greek Myths	Who can build the tallest tower?	Where does food come from?
Year 6	How can I make a robot move? (Programming)	How fast should your buggy be?	How can we sell the most snacks?

KS1 DT National Curriculum

		Design		Make				Evaluate		Technical Knowledge		Cooking and Nutrition	
		Design purposeful, functional, appealing products for themselves and other users based on design criteria.	Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, ICT.	Use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]	Select and use a wide range of **construction** materials	Select and use a wide range of **textiles**.	Select and use a wide range of **ingredients**.	Explore and evaluate a range of existing products.	Evaluate their ideas and products against design criteria	Build structures, exploring how they can be made stronger, stiffer and more stable.	Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.	Use the basic principles of a healthy and varied diet to prepare dishes.	Understand where food comes from.
Year 1	Where shall we hang our bunting?	✓	✓	✓		✓		✓	✓				
Year 1	Can we make a picture move?	✓		✓	✓			✓	✓		✓		
Year 1	How cool is your drink?		✓	✓			✓	✓	✓			✓	✓
Year 2	How can we make fabric?	✓	✓	✓		✓		✓	✓				
Year 2	Who can build the best bridge?		✓	✓	✓				✓	✓			
Year 2	What makes a good sandwich?	✓		✓			✓	✓	✓			✓	✓

KS2 DT National Curriculum

Year	Question	Design: Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose.	Design: Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and...	Make: Select from and use a wider range of tools and equipment to perform practical tasks [e.g. cutting, shaping, joining and finishing], accurately.	Make: Select from and use a wider range of materials and components, including construction materials.	Make: Select from and use a wider range of materials and components, including textiles.	Make: Select from and use a wider range of materials and components, including ingredients.	Evaluate: Investigate and analyse a range of existing products.	Evaluate: Evaluate their ideas and products against their own design criteria and consider the views of others.	Evaluate: 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.	Technical Knowledge: Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages].	Technical Knowledge: Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors].	Technical Knowledge: Apply their understanding of computing to program, monitor and control their products.	Cooking and Nutrition: Understand and apply the principles of a healthy and varied diet.	Cooking and Nutrition: Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.	Cooking and Nutrition: Understand seasonality, where and how a variety of ingredients are grown, reared, caught and processed.
Year 3	What sewing skills did the Victorians learn?		✓	✓		✓			✓	✓							
Year 3	Can a poster be mechanical?	✓	✓	✓	✓			✓	✓			✓					
Year 3	How do you make the perfect pizza?			✓			✓	✓	✓						✓	✓	
Year 4	How can we upcycle our clothes?			✓		✓		✓		✓							
Year 4	Where shall we store our stationary?	✓	✓	✓	✓			✓	✓		✓						
Year 4	What's seasonal about a salad?	✓	✓				✓	✓	✓	✓					✓	✓	✓
Year 5	How could a puppet tell a story?	✓	✓	✓		✓		✓	✓		✓						
Year 5	Who can build the tallest tower?		✓	✓	✓				✓		✓						
Year 5	Where does food come from?						✓	✓		✓					✓	✓	✓
Year 6	How can I make a robot?	✓	✓		✓				✓					✓			
Year 6	How fast should your buggy be?	✓	✓	✓	✓			✓	✓		✓	✓	✓				
Year 6	How can we sell the most snacks?	✓	✓	✓				✓	✓								