

Design & Technology Whole School Breadth Overview Knowledge Map

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Unit 1	Cooking & Nutrition Fruit and Vegetable Smoothie	Cooking & Nutrition A Balanced Diet	Cooking & Nutrition Eating Seasonally	Cooking & Nutrition Adapting a Recipe	Cooking & Nutrition What Could Be Healthier?	Cooking & Nutrition Come Dine With Me
Unit 2	Mechanisms Moving Storybook: Sliders Curriculum end goal: <ul style="list-style-type: none"> Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	Mechanisms Moving Monsters Curriculum end goal: <ul style="list-style-type: none"> Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	Mechanisms Pneumatic Toys Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	Mechanisms Slingshot Cars Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	Mechanisms Pop-up Books Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	Mechanisms Automata Toys Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
Unit 3	Structures Windmills Curriculum end goal: <ul style="list-style-type: none"> 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. 	Structures Baby Bear's Chair Curriculum end goal: <ul style="list-style-type: none"> 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. 	Structures Castles Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	Structures Pavilions Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	Structures Bridges Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages] 	Structures Playgrounds Curriculum end goal: <ul style="list-style-type: none"> Understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages]
Unit 4	Textiles Puppets	Textiles Pouches	Textiles Cushions	Textiles Fastenings	Textiles Stuffed Toys	Textiles Waistcoats
Unit 5	Mechanisms Wheels and Axles Curriculum end goal: <ul style="list-style-type: none"> Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	Mechanisms Ferris Wheels Curriculum end goal: <ul style="list-style-type: none"> Explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products. 	Electrical Systems Static Electricity Curriculum end goal: <ul style="list-style-type: none"> Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] 	Electrical Systems Torches Curriculum end goal: <ul style="list-style-type: none"> Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] 	Electrical Systems Electric Greetings Cards Curriculum end goal: <ul style="list-style-type: none"> Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] 	Electrical Systems Steady Hand Games Curriculum end goal: <ul style="list-style-type: none"> Understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors]
	Curriculum end goal (opportunities in each unit to...): <ul style="list-style-type: none"> 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, information and communication technology Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics Explore and evaluate a range of existing products Evaluate their ideas and products against design criteria Food Technology <ul style="list-style-type: none"> Use basic principles of a healthy and varied diet to prepare dishes Understand where food comes from 		Curriculum end goal (opportunities in each unit to...): <ul style="list-style-type: none"> 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 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 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 their work Food Technology <ul style="list-style-type: none"> Understand and apply principles of a healthy and varied diet Prepare and cook 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 			