



Curriculum Progression: Design and Technology

	Year 1	Year 2	Year 3	Year 4
Everyday products	Explore and evaluate a range of existing products	Explore and evaluate a range of existing products	Investigate and analyse a range of existing products	Investigate and analyse a range of existing products
Staying Safe		Know about personal hygiene and germs including bacteria, viruses, how they are spread and treated, and the importance of handwashing.		
Electricity			Understand and use electrical systems in their products (for example, series circuits incorporating switches, bulbs, buzzers and motors).	
Mechanisms and Movement	Explore and use mechanisms (for example, levers, sliders, wheels and axles), in their products.		Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages).	Understand and use mechanical systems in their products (for example, gears, pulleys, cams, levers and linkages).
Creativity Generation of Ideas	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.	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.	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,	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-



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			pattern pieces and computer-aided design.	aided design.
Use of ICT				Apply their understanding of computing to program, monitor and control their products
Structures	Build structures, exploring how they can be made stronger, stiffer and more stable.	Build structures, exploring how they can be made stronger, stiffer and more stable.		Apply their understanding of how to strengthen, stiffen and reinforce more complex structures
Investigation		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 wider range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing), accurately.	
Evaluation	Evaluate their ideas and products against design criteria.	Evaluate their ideas and products against design criteria.	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.	Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.
Materials for purpose	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.	Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.



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Food preparation and cooking	<i>Use the basic principles of a healthy and varied diet to prepare dishes.</i>	Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing). Use the basic principles of a healthy and varied diet to prepare dishes.	<i>Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.</i>	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques.
Nutrition	Know what constitutes a healthy diet	Know what constitutes a healthy diet	Know what constitutes a healthy diet	Understand and apply the principles of a healthy and varied diet. Know what constitutes a healthy diet (including understanding calories and other nutritional content). Know the principles of planning and preparing a range of healthy meals.
Origins of food Link to RE HARVEST		Understand where food comes from.		Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.
Compare and contrast	Explore and evaluate a range of existing products.	Explore and evaluate a range of existing products.	Understand how key events and individuals in design and technology have helped shape the world.	Investigate and analyse a range of existing products.
Significant people				Understand how key events and individuals in design and technology have helped shape the world.