

Design Technology Progression of knowledge and Skills

	Cooking and Nutrition
Year 1	Talk about what they eat at home and begin to discuss what a healthy foods are
	Say where some food comes from and give examples of food that is grown
	Use simple tools with help to prepare food safely
Year 2	Understand the need for a variety of food in a diet
	Understand that all food has to be farmed, grown or caught
	Use a wider range of cookery techniques to prepare food safely
Year 3	Talk about the different food groups and name food from each group
	Understand that food has to be grown, farmed or caught in Europe and the wider world
	Use a wider variety of ingredients and techniques to prepare and combine ingredients safely
Year 4	Understand what makes a healthy and balanced diet, and that different foods and drinks provide different
	substances the body needs to be healthy and active
	Understand seasonality and the advantages of eating seasonal and locally produced food
	Read and follow recipes which involve several processes, skills and techniques
Year 5	Understand the main food groups and the different nutrients that are important for health
	Understand how a variety of ingredients are grown, reared, caught and processed to make them safe and
	palatable/ tasty to eat
	Select appropriate ingredients and use a wide range of techniques to combine them
Year 6	Confidently plan and prepare and cook a savoury dish applying their knowledge of ingredients and their
	technical skills

words to describe what they want to do se a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining uple tools to combine materials and components safely cons about existing products and those that they have made exploring how they can be made stronger, stiffer and more stable skles in a product I, functional, appealing products for themselves and other users based on design criteria to, model and communicate their ideas through talking, drawing, templates, mock-ups
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te tools, equipment, techniques and materials from a wide range
nark out, cut and shape materials and components using a range of tools
ss existing products and those that they have made using a design criteria
ent techniques for stiffening a variety of materials and explore different methods of
es to remain stable
nechanisms e.g. levers, sliders, wheels and axles, in their products
existing products to design their own functional product
ng annotated sketches, cross-sectional diagrams and simple computer programs
nark out, cut, assemble and join with some accuracy
pices from a wider range of tools and unfamiliar materials and plan out the main stages of
halyse existing products and those they have made, considering a wide range of factors
s using diagonal struts
mechanical systems such as levers and linkages or pneumatic systems create movement
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Year 4 Use knowledge of existing products to design a functional and appealing product for a particular purpose and audience Create designs using exploded diagrams Use techniques which require more accuracy to cut, shape, join and finish their work e.g. Cutting internal shapes, slots in frameworks Use their knowledge of techniques and the functional and aesthetic qualities of a wide range of materials to plan how to use them Consider how existing products and their own finished products might be improved and how well they meet the needs of the intended user Apply techniques they have learnt to strengthen structures and explore their own ideas Understand and use electrical systems in products Year 5 Create prototypes to show their ideas Make careful and precise measurements so that joins, holes and openings are in exactly the right place Produce step by step plans to guide making their making, demonstrating they can apply their subject knowledge of different materials, tools and techniques Make detailed evaluations about existing products and their own considering the views of others to improve their work Build more complex 3D structures and apply their knowledge of strengthening techniques to make them stronger or more stable Understand how to use more complex mechanical and electrical systems Year 6 Generate develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams prototypes, pattern pieces and computer-aided design Apply their knowledge of materials and techniques to refine and rework their product to improve its functional properties and aesthetic qualities Use technical knowledge and accurate skills to problem solve during the making process Use their knowledge of famous designs to further explain the effectiveness of existing products and products they have made

Use a wide range of methods to strengthen, stiffen and reinforce complex structures and can use them

Apply their understanding of computing to program, monitor and control their product

accurately and appropriately