

	EYFS	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Developing, planning and communicating ideas.	Begin to develop of using small world animal sets, dolls etc.  Explore different in the develop their ideas, resources and details.  Create closed shall continuous lines at these shapes to resource and details.  Create collaboration ideas, resources and details.	equipment like and dolls houses, materials freely, deas about how to at to make. In ideas and then erials to use to pes with and begin to use epresent objects. It in gomplexity is representing a and including vely, sharing	Generate ideas badesign criteria and experiences, explacould make.  Generate, develop communicate the appropriate through drawing, template information and otechnology.  Design a functional product for a chospurpose based on criteria.	d their own aining what they o, model and ir ideas as agh talking, es, mock-ups and communication all and appealing sen user and	Gather information needs and wants, design criteria to of products that a Generate, develop communicate reathrough discussion appropriate, annotoross-sectional and diagrams focusing the user and purpoproduct.  Develop ideas throof existing product annotated sketcheto model and communicated second and communicated and communicat	and develop inform the design are fit for purpose. p, model and listic ideas n and, as ptated sketches, ad exploded g on the needs of asse of the  ough the analysis ats and use es and prototypes municate ideas. ough the analysis cructures and use esign to model	interviews, questi web-based resour Develop a simple specification to gue thinking.  Develop and come through discussion drawings, exploded drawings from dif	design uide their municate ideas n, annotated ed drawings, ferent views and tations of circuits. evelop a design functional onds changes in the e account of ling time, st. p and as through ated sketches and tations of





FRIMARY SCHOOL-					
	Make imaginative and complex	Plan by suggesting what to do next.	Order the main stages of making.	Produce detailed lists of tools,	
Working with	'small worlds' with blocks and	Select from and use a range of	Select and use appropriate tools	equipment and materials.	
tools, equipment,	construction kits, such as a city	tools and equipment to perform	and software to measure, mark	Formulate step-by-step plans and,	
materials and	with different buildings and a park.	practical tasks such as marking out,	out, cut, score, shape and assemble	if appropriate, allocate tasks within	
components to make quality	Join different materials and explore	cutting, joining and finishing	with some accuracy	a team.	
products (inc-	different textures.	Select from and use textiles	Explain their choice of materials	Select from and use a range of	
food)		according to their characteristics.	according to functional properties	tools and equipment to make	
		Use simple finishing techniques	and aesthetic qualities.	products that that are accurately	
		suitable for the product they are creating.	Use finishing techniques suitable for the product they are creating. Use computer-generated finishing	assembled and well finished. Work within the constraints of time, resources and cost.	
			techniques suitable for the product	Competently select and accurately	
			they are creating.	assemble materials, and securely	
			Connect simple electrical components and a battery in a series circuit to achieve a functional	connect electrical components to produce a reliable, functional product.	
			outcome.	Create and modify a computer	
			Program a standalone control box, microcontroller or interface box to enhance the way the product works.	control program to enable an electrical product to work automatically in response to changes in the environment.	
Evaluating processes and products	Return to and build on their previous learning, refining ideas and developing their ability to represent them.	Explore and evaluate a range of existing textile products and free standing structures relevant to project	Investigate and analyse a range of existing battery-powered products, including pre-programmed and programmable products.	Investigate famous inventors who developed ground-breaking electrical systems and components. Investigate famous manufacturing and engineering companies relevant to the project.	
			Evaluate their ideas and products against their own design criteria and identify the strengths and		
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Evaluate their ideas throughout and their final products against original design criteria.

Explore a range of existing books and everyday products that use simple sliders and levers.

Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria.

areas for improvement in their work.

Investigate and evaluate a range of existing shell structures including the materials, components and techniques that have been used.

Know and use relevant technical and sensory vocabulary appropriately. Designing

Generate and clarify ideas through discussion with peers and adults to develop design criteria including appearance, taste, texture and aroma for an appealing product for a particular user and purpose.

Use annotated sketches and appropriate information and communication technology, such as web-based recipes, to develop and communicate ideas Making

Plan the main stages of a recipe, listing ingredients, utensils and equipment.

Select and use appropriate utensils and equipment to prepare and combine ingredients.

Test products and systems with intended user and critically evaluate the quality of the design, manufacture, functionality and fitness for purpose.

Consider the views of others to improve their work.

Continually evaluate and modify the working features of the product to match the initial design specification.

Compare the final product to the original design specification.

Generate innovative ideas through research and discussion with peers and adults to develop a design brief and criteria for a design specification.

Explore a range of initial ideas, and make design decisions to develop a final product linked to user and purpose.

Use words, annotated sketches and information and communication technology as appropriate to develop and communicate ideas. Making





Select from a range of ingredients to make appropriate food products, thinking about sensory characteristics. Evaluating

Carry out sensory evaluations of a variety of ingredients and products. Record the evaluations using e.g. tables and simple graphs.

Evaluate the ongoing work and the final product with reference to the design criteria and the views of others.

Write a step-by-step recipe, including a list of ingredients, equipment and utensils

Select and use appropriate utensils and equipment accurately to measure and combine appropriate ingredients.

Make, decorate and present the food product appropriately for the intended user and purpose. Evaluating

Carry out sensory evaluations of a range of relevant products and ingredients. Record the evaluations using e.g. tables/graphs/charts such as star diagrams.

Evaluate the final product with reference back to the design brief and design specification, taking into account the views of others when identifying improvements.

Understand how key chefs have influenced eating habits to promote varied and healthy diets.





	- PRIMARY SCHOOL		
Food and Nutrition	Understand where a range of fruit and vegetables (focus on pulses and exotic fruit) come from e.g. farmed or grown at home.  Understand and use basic principles of a healthy and varied diet to prepare dishes, including	Technical knowledge and understanding  Know how to use appropriate equipment and utensils to prepare and combine food.  Know about a range of fresh and	Know how to use utensils and equipment including heat sources to prepare and cook food. Understand about seasonality in relation to food products and the source of different food products. Know and use relevant technical
	how fruit and vegetables are part of The Eatwell plate.  Know and use technical and sensory vocabulary relevant to the project. Design appealing products for a particular user based on simple design criteria.  Generate initial ideas and design criteria through investigating a	processed ingredients appropriate for their product, and whether they are grown, reared or caught.	and sensory vocabulary. Designing
	variety of fruit and vegetables. Communicate these ideas through talk and labelled drawings.  Use simple utensils and equipment to e.g. peel, cut, slice, squeeze, grate and chop safely.  Select from a range of fruit and vegetables according to their characteristics e.g. colour, texture		

and taste to create a chosen

product.





	- PRIMARY SCHOOL		
Technical Knowledge	Taste and evaluate a range of fruit and vegetables to determine the intended user's preferences.  Evaluate ideas and finished products against design criteria, including intended user and purpose.  Understand how simple 3-D textile	-Understand and use computing to	Understand that mechanical and
recinital Niowieuge	products are made, using a template to create two identical shapes.  Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling.  Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequins, buttons and ribbons.  Know how to make freestanding structures stronger, stiffer and more stable.  Explore and use sliders and levers. Understand that different mechanisms produce different types of movement. Know and use technical vocabulary relevant to the project	program and control products containing electrical systems, such as series circuits incorporating switches, bulbs and buzzers. Develop and use knowledge of how to construct strong, stiff shell structures.  Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes.  Know and use technical vocabulary relevant to the project.	electrical systems have an input, process and an output.  Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement.  Understand and use electrical systems in their products.  Understand the use of computer control systems in products.  Apply their understanding of computing to program, monitor and control their products.  Know and use technical vocabulary relevant to the project

