

#WeAreGlobal



Design and Technology

Years 1 and 2

Concept	Strand	Skills Taught
Master practical skills	Food	Cut, peel or grate ingredients safely and hygienically.
This concept involves		 Measure or weigh using measuring cups or electronic scales.
developing the skills needed to		Assemble or cook ingredients.
make high quality products (we		
have highlighted a range of	Materials	Cut materials safely using tools provided.
skills but they may be added to		Measure and mark out to the nearest centimetre.
or changed		• Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and
		curling).
		• Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen).
		Strengthen).
	Textiles	Shape textiles using templates.
		Join textiles using running stitch.
		Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins
		or printing).
	Electricals and	Diagnose faults in battery operated devices (such as low battery, water damage or battery
	electronics	terminal damage).
	Computing	Model designs using software.
	Construction	Use materials to practise drilling, screwing, gluing and nailing materials to make and
		strengthen products.
Desire make evaluate and	Mechanics	Create products using levers, wheels and winding mechanisms.
Design, make, evaluate and	Design products that have a clear purpose and an intended user. Make products refining the design as work progresses	
improve	 Make products, refining the design as work progresses. Use software to design. 	
This concept involves developing the process of	• Use soltware to design	1.
design thinking and seeing		
design as a process.		
uesign as a process.		





appreciating the design process that has influenced the products

we use in everyday life.





#WeAreGlobal



Design and Technology

Years 3 and 4

Concept	Strand	Skills Taught
Master practical skills	Food	Prepare ingredients hygienically using appropriate utensils.
This concept involves		 Measure ingredients to the nearest gram accurately.
developing the skills needed to		Follow a recipe.
make high quality products (we have highlighted a range of		• Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking).
skills but they may be added to	Materials	Cut materials accurately and safely by selecting appropriate tools.
or changed		Measure and mark out to the nearest millimetre.
		• Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs).
		Select appropriate joining techniques.
	Textiles	Understand the need for a seam allowance.
		Join textiles with appropriate stitching.
		 Select the most appropriate techniques to decorate textiles.
	Electricals and	Create series and parallel circuits
	electronics	
	Computing	Control and monitor models using software designed for this purpose.
	Construction	 Choose suitable techniques to construct products or to repair items.
		Strengthen materials using suitable techniques.
	Mechanics	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for
		a product (such as levers, winding mechanisms, pulleys and gears).
Design, make, evaluate and	 Design with purpose by identifying opportunities to design. 	
improve	 Make products by working efficiently (such as by carefully selecting materials). 	
This concept involves	Refine work and techniques as work progresses, continually evaluating the product design.	







developing the process of design thinking and seeing design as a process.	Use software to design and represent product designs.
Take inspiration from design throughout history This concept involves appreciating the design process that has influenced the products we use in everyday life.	 Identify some of the great designers in all of the areas of study (including pioneers in horticultural techniques) to generate ideas for designs. Improve upon existing designs, giving reasons for choices. Disassemble products to understand how they work.







Design and Technology

Years 5 and 6

Concept	Strand	Skills Taught
Master practical skills	Food	Understand the importance of correct storage and handling of ingredients (using knowledge of micro argonizmo)
This concept involves		of micro-organisms).
developing the skills needed to		Measure accurately and calculate ratios of ingredients to scale up or down from a recipe.
make high quality products (we		Demonstrate a range of baking and cooking techniques.
have highlighted a range of		Create and refine recipes, including ingredients, methods, cooking times and temperatures.
skills but they may be added to	Materials	 Cut materials with precision and refine the finish with appropriate tools (such as
or changed		sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape).
		 Show an understanding of the qualities of materials to choose appropriate tools to cut and
		shape (such as the nature of fabric may require sharper scissors than would be used to cut
		paper).
	Textiles	 Create objects (such as a cushion) that employ a seam allowance.
		 Join textiles with a combination of stitching techniques (such as back stitch for seams and
		running stitch to attach decoration).
		 Use the qualities of materials to create suitable visual and tactile effects in the decoration of
		textiles (such as a soft decoration for comfort on a cushion).
	Electricals and	 Create circuits using electronics kits that employ a number of components (such as LEDs,
	electronics	resistors, transistors and chips).
	Computing	Write code to control and monitor models or products.
	Construction	Develop a range of practical skills to create products (such as cutting, drilling and screwing,
		nailing, gluing, filing and sanding).
	Mechanics	Convert rotary motion to linear using cams.
		 Use innovative combinations of electronics (or computing) and mechanics in
		product designs.
Design, make, evaluate and	• Design with the user in mind, motivated by the service a product will offer (rather than simply for profit).	
improve	Make products through stages of prototypes, making continual refinements.	
This concept involves	Ensure products have a high quality finish, using art skills where appropriate.	
developing the process of		ss-sectional diagrams and computer aided designs to represent designs.





#WeAreCollaborative



#WeAreResilient

design thinking and seeing	
design as a process.	
Take inspiration from design	• Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices.
throughout history	Create innovative designs that improve upon existing products.
This concept involves	• Evaluate the design of products so as to suggest improvements to the user experience.
appreciating the design process	
that has influenced the products	
we use in everyday life.	

