



DESIGN TECHNOLOGY

Key Concepts		Milestone 1	Milestone 2	Milestone 3
		(Year 1 & 2)	(Year 3 & 4)	(Year 5 & 6)
Master practical skills	Food	Cut, peel or grate ingredients	Prepare ingredients hygienically	Understand the importance of
This concept involves		safely and hygienically.	using appropriate utensils.	correct storage and handling of
developing the skills needed				ingredients (using knowledge of
to make high quality		Measure or weigh using	Measure ingredients to the	micro-organisms).
products (we have		measuring cups or electronic	nearest gram accurately.	
highlighted a range of skills		scales.		Measure accurately and
but they may be added to or		. A complete an early in socializate	Follow a recipe.	calculate ratios of ingredients to
changed		Assemble or cook ingredients.	A	scale up or down from a recipe.
			Assemble or cook ingredients	Demonstrate a range of baking
			(controlling the temperature of the oven or hob, if cooking).	and cooking techniques.
			the over or hob, it cooking).	and cooking techniques.
				Create and refine recipes,
				including ingredients, methods,
				cooking times and temperatures.
	Materials	Cut materials safely using tools	Cut materials accurately and	Cut materials with precision and
		provided.	safely by selecting appropriate	refine the finish with appropriate
			tools.	tools (such as sanding wood after
		 Measure and mark out to the 		cutting or a more precise
		nearest centimetre.	Measure and mark out to the	scissor cut after roughly cutting
			nearest millimetre.	out a shape).
		 Demonstrate a range of cutting 		
		and shaping techniques (such as	Apply appropriate cutting and	Show an understanding of the
		tearing, cutting, folding and	shaping techniques that include	qualities of materials to choose
		curling).	cuts within the perimeter of the	appropriate tools to cut and shape
				(such as the nature of fabric may



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		Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to	material (such as slots or cut outs).	require sharper scissors than would be used to cut paper).
		strengthen).	 Select appropriate joining techniques. 	
	Textiles	Shape textiles using templates.	• Understand the need for a seam allowance.	Create objects (such as a cushion) that employ a seam
		Join textiles using running stitch.	Join textiles with appropriate	allowance.
		Colour and decorate textiles using a number of techniques	stitching.	Join textiles with a combination of stitching techniques (such as
		(such as dyeing, adding sequins or printing).	• Select the most appropriate techniques to decorate textiles.	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
	Floatsianle and Floatsanian	a Diagrapa faulta in battam.	- Create series and regalled	for comfort on a cushion).
	Electricals and Electronics	Diagnose faults in battery approved devises (such as law)	Create series and parallel inquite	Create circuits using electronics Lits that ampley a number of
		operated devices (such as low battery, water damage or battery	circuits	kits that employ a number of components (such as LEDs,
		terminal damage).		resistors, transistors and chips).
	Computing	Model designs using software.	Control and monitor models	Write code to control and
			using software designed for this purpose.	monitor models or products.
	Construction	Use materials to practise drilling,	Choose suitable techniques to	Develop a range of practical
		screwing, gluing and nailing	construct products or to repair	skills to create products (such as
		materials to make and strengthen	items.	cutting, drilling and screwing,
		products.		nailing, gluing, filing and sanding).
			Strengthen materials using	
			suitable techniques.	



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_	Mechanics	Create products using levers,	Use scientific knowledge of the	Convert rotary motion to linear
		wheels and winding mechanisms.	transference of forces to choose appropriate mechanisms for a	using cams.
			product (such as levers,	Use innovative combinations of
			winding mechanisms, pulleys and	electronics (or computing) and
			gears).	mechanics in product designs.
Design, make, evaluate and		 Design products that have a 	Design with purpose by	• Design with the user in mind,
improve		clear purpose and an intended	identifying opportunities to	motivated by the service a product
This concept involves		user.	design.	will offer (rather than simply for
developing the process of				profit).
design thinking and seeing		 Make products, refining the 	 Make products by working 	
design as a process.		design as work progresses.	efficiently (such as by carefully	Make products through stages
			selecting materials).	of prototypes, making continual
		 Use software to design. 		refinements.
			 Refine work and techniques as 	
			work progresses, continually	 Ensure products have a high
			evaluating the product design.	quality finish, using art skills where
				appropriate.
			 Use software to design and 	
			represent product designs.	• Use prototypes, cross-sectional
				diagrams and computer aided
				designs to represent designs.
Take inspiration from		 Explore objects and designs to 	Identify some of the great	 Combine elements of design
design throughout history		identify likes and dislikes of the	designers in all of the areas of	from a range of inspirational
This concept involves		designs.	study (including pioneers	designers throughout
appreciating the design			in horticultural techniques) to	history, giving reasons for choices.
process that has influenced		 Suggest improvements to 	generate ideas for designs.	
the products we use in		existing designs.		 Create innovative designs that
everyday life.			 Improve upon existing designs, 	improve upon existing products.
		• Explore how products have been	giving reasons for choices.	
		created.		Evaluate the design of products
			Disassemble products to	so as to suggest improvements to
			understand how they work.	the user experience.