

Year 6	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Knowledge (Substantive)	1.To know how to design for the intended use of the product, what the targeted age range is and what	1.To understand the characteristics of different materials to select the most appropriate	1.To know that products and inventions can be compared using a range of criteria. (& Engineer) (& Make do & mend)	1.To know that strength can be added to a framework by using multiple layers.	1.To know that eating a balanced diet is a positive lifestyle choice that should be sustained over time.
Topic: Food for life Topic: Engineer Topic: Make do & mend	the final appearance will be.	material for a purpose. (& Make do & mend) 2.To know that pinning with dressmaker pins	2.To know that people's lives have been improved in countless ways due to new inventions and designs. (& Engineer)	2.To know that precision is important in producing a finished product.3.To know that fastenings hold a	2.To know that ingredients can usually be bought at supermarkets, but specialist shops may stock different items.
		and tacking with quick, temporary stitches holds fabric together in preparation for and during sewing.	(& Make do & mend) 3. To know that design is an iterative process, meaning alterations and improvements are made continually throughout the manufacturing process. (& Engineer)	piece of clothing together.	3.To know that organic produce is food that has been grown without the use of man-made fertilisers, pesticides, growth regulators or animal feed additives.

			4.To know that the significance of a designer or inventor can be measured in various ways.		
Year 6	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Skills (disciplinary knowledge)	1.Develop design criteria for a functional and appealing product that is fit for purpose,	1.Choose the best materials for a task, showing an understanding of their working characteristics.	1.Create a detailed comparative report about two or more products or inventions. (& Engineer) (& Make do & mend)	1.Select the most appropriate materials and frameworks for different structures, explaining what	1.Plan a healthy daily diet, justifying why each meal contributes towards a balanced diet.
Topic: Food for life	communicating ideas clearly in a range of ways.	(& Make do & mend) 2.Pin and tack	2.Analyse how an invention or product has significantly changed or	makes them strong. (& Make do & mend) 2.Select appropriate	2.Follow a recipe that requires a variety of techniques and source the necessary
Topic: Engineer Topic: Make do		fabrics in preparation for sewing and more	improved people's lives. (& Engineer) (& Make do & mend)	tools for a task and then use then safely ad precisely.	ingredients independently
& mend		complex pattern work.	3. Demonstrate modifications made to a product as a result of	3.Use different methods of fastening for function and	3.Explain how organic produce is grown.

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	ongoing evaluation by	decoration, including	
	themselves and to others	press studs, Velcro	
	(& Engineer)	and buttons.	
	4.Present a detailed		
	account of the		
	significance of a favourite		
	designer or inventor.		



Year 5	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Knowledge (Substantive)	1.To know that safety features are often incorporated into products that might cause harm.	1.To know that there are many rules for using tools safely and these may vary depending on the	1.To know that culture is the language, inventions, ideas and art of a group of people.	1.To know that various methods can be used to support a framework. (& Architecture)	1.To know that a balanced diet gives your body all the nutrients it needs to function correctly.
Topic: Moving mechanisms Topic: Eat the	2.To know that a pattern piece is a drawing or shape used to guide how to	2.To know that materials should be	(& Architecture) 2.To know that a focus group is a small group of people	2.To know that pneumatic systems use energy that is stored in compressed	This means eating a wide variety of foods in the correct proportions.
seasons Topic: Architecture	make something.	cut and combined with precision. (& Architecture)	whose reactions & opinions are taken and studied.	air to do work.	2. To know that sweet dishes are usually desserts, such as cakes, fruit
		3.To know that many new designs and inventions influenced society.	3.To know how to test a product against the design criteria will highlight anything that needs		pies and trifles. Savoury dishes usually have a salty or spicy flavour rather than a sweet
			improvement or redesign. (& Architecture)		one.3. To know that seasonality is the

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file and the second	time of year when the harvest or							
for the state of t	flavour of a type of							
	food is at its best.							



Year 5	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Skills (disciplinary knowledge)	1. Explain the functionality and purpose of safety features.	1.Name and select increasingly appropriate tools for a task and use them safely	1.Explain how the design of a product has been influenced by the culture or society in which it	1.Build a framework using a range of materials to support mechanisms. (& Architecture)	1.Evaluate meals and consider if they contribute towards a balanced diet.
Topic: Moving mechanisms	2.Use pattern pieces and computer-aided design packages to design a product.	2.Select and combine materials with precision. (& Architecture)	was designed or made. (& Architecture)	2. Use mechanical systems in their products, such as	2. Use an increasing range of preparation and cooking techniques to cook a sweet or savoury
Topic: Eat the seasons Topic: Architecture		3.Describe the social influence of a significant designer	2.Survey users in a range of focus groups and compare results.	pneumatics.	dish.3. Describe what seasonality means and explain some of
		or inventor.	3.Test and evaluate products against a detailed design specification and make adaptations as they develop the product. (& Architecture)		the reasons why it is beneficial.

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Year 4	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Knowledge	1.To know how to	1.To know that	1.To know that significant	1. To know that	1.To know that
(Substantive)	make annotated sketches and exploded diagrams show specific parts	different materials and components have a range of properties, making them suitable	designers and inventors can shape the world. (& Functional & fancy fabrics)	a prototype is a mock-up of a design that will look like the	healthy snacks include fresh or dried fruit and vegetables, nuts
Topic: Fresh food, Good food	of a design, highlight sections or show functions.	for different tasks (& Functional & fancy fabrics)	2. To know that evaluation can be done by considering	finished product but may not be full	and seeds. 2. To know that
Topic: Functional &	(& Functional & fancy fabrics) 2.To know that a	(& Tomb builders) 2.To know that block printing techniques and	whether the product does what it was designed to do, has an attractive appearance, what changes	size or made of the same materials.	particular areas of the world have conditions suited to growing certain
fancy fabrics	comparison table	fabric paint are used to	were made during the		crops,
Topic: Tomb builders	can be used to compare products by listing specific criteria on which	create decorative, repeated patterns on fabrics.	making. (& Functional & fancy fabrics) (& Tomb builders)		3. To know different cooking techniques
	each product can be judged or scored.	3.To know a hem runs along the edge of a piece of cloth or	3.To know that design		include baking, boiling, frying, grilling and
	3.To know that mechanisms can be used to add	clothing.	features are the aspects of a product's design that the designer would like to emphasise.		roasting.

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functionality to a model.	4.To know some useful tools for cutting and joining.	(& Functional & fancy fabrics)		



Year 4	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Skills (Disciplinary knowledge) Topic: Fresh food, Good food Topic: Functional & fancy fabrics Topic: Tomb builders	1.Use annotated sketches and exploded diagrams to test and communicate their ideas. (& Functional & fancy fabrics) 2. Create and complete a comparison table to compare two or more products. 3. Explore and use a range of mechanisms (levers, axles, cams, gears and pulleys) in	1. Choose from a range of materials, showing an understanding of their different characteristics (& Functional & fancy fabrics) (& Tomb builders) 2. Create detailed decorative patterns on fabric using printing techniques. 3. Hand sew a hem or seam using a running stitch. 4. Select, name and use tools with adult supervision.	1.Explain how and why a significant designer or inventor shaped the world. (& Functional & fancy fabrics) 2.Identify what has worked well and what aspects of their products could be improved, acting on their own suggestions and those of others when making improvements. (& Functional & fancy fabrics) (& Tomb builders) 3. Investigate and identify the design features of a	knowledge 1. Prototype shell and frame structures, showing awareness of how to strengthen, stiffen and reinforce them.	1. Design a healthy snack or packed lunch and explain why it is healthy. 2. Identify and name foods that are produced in different places in the UK and beyond. 3. Identify and use a range of cooking techniques to prepare a simple meal or snack.
	gears and pulleys) in models or products.	supervision.	familiar product. (& Functional & fancy fabrics)		





Year 3	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Knowledge	1.To know that key	1.To know that	1.To know that	1.To know that	1.To know that the
(Substantive)	inventions in design and technology have changed the way	materials for a specific task must be selected on the basis	asking questions that can help others to evaluate their	electrical appliances must only be used under the	types of food that will grow in a particular area
	people live. 2.To know that	of their properties. (& Greenhouse)	products. (& Making it move) (& Greenhouse)	supervision of an adult	depend on a range of factors, such as the rainfall, climate and
Topic: Making it move	design criteria are the exact goals a	2.To know that specific tools can be	2.To know that work	2.To know that levers consist of a rigid bar	soil type.
Topic: Greenhouse	project must achieve to be successful. (& Making it move) (& Greenhouse)	used for cutting and joining. (& Greenhouse)	from different designers can be compared by assessing specific	that rotates around a fixed point, called a fulcrum	2.To know that the types of food that will grow in a particular area
	3.To know that particular products have been designed for specific task	3.To know that shell structures are hollow, 3-D structures with a thin outer covering, such	criteria, such as their visual impact, fitness for purpose and target market		depend on a range of factors, such as the rainfall, climate and soil type
	(& Greenhouse)	as a box. Frame structures are made from thin, rigid components, such as a tent frame.			3.To know that here are five main food groups that should be eaten regularly as part of a balanced diet:



					4.To know the preparation techniques for savoury dishes include peeling, chopping, deseeding, slicing, dicing, grating, mixing and skinning.
Year 3	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Skills (Disciplinary knowledge)	1.Describe how key events in design and technology have shaped the world.	1.Plan which materials will be needed for a task and explain why. (& Greenhouse)	1.Suggest improvements to their products and describe how to implement them,	1.Use appliances safely with adult supervision. 2.Explore and use a	1.Identify and name foods that are produced in different places.
Topic: Cook well, Eat well	2.Develop design criteria to inform a design. (& Making it move) (& Greenhouse)	2. Use tools safely for cutting and joining materials and components.	beginning to take the views of others into account. (& Making it move) (& Greenhouse)	range of mechanisms (levers, sliders, axles, wheels and cams) in models or products.	2.Identify and name foods that are produced in different places.
Topic: Making it move Topic: Greenhouse	3.Explain how an existing product benefits the user.	(& Greenhouse) 3.Create shell or frame structures	2.Explain the similarities and difference between		3.Identify the main food groups (carbohydrates, protein, dairy, fruits

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(& Greenhouse)	using diagonal struts	the work of two	and vegetables, fats
	to strengthen them.	designers.	and sugars).
			4.Prepare and cook a
			simple savoury dish.



Year 2	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Knowledge	1.To know that	1.To know that	1.To know that	1.To know that there	1.To know that a healthy
(Substantive)	ideas can be communicated in	Different tools have characteristics that	finished products can	are hygiene rules to follow include	diet should include meat
	a variety of ways.	make them suitable for	be compared with design criteria to see	washing hands	or fish, starchy foods (such as potatoes or
Topic:	(& Beach Hut)	specific purposes.	how closely they	before handling	rice), some dairy foods,
Remarkable	(& Cut, Stitch &	(& Beach Hut)	match.	food, cleaning	a small amount of fat
recipes	Join)		(& Beach Hut)	surfaces, tying long	and plenty of fruit and
			(& Cut, Stitch & Join)	hair back, storing	vegetables.
Topic: Beach		2.To know that	(& Push & Pull)	food appropriately	
Hut		structures can be made		and wiping up spills.	2.To know that food
		stronger, stiffer and	2.To know that many		comes from two main
Topic: Cut,		more stable by using	key individuals have	2.To know the	sources: animals and
Stitch & Join		cardboard rather than paper and triangular	helped to shape the world.	properties of components and	plants.
Topic: Push		shapes rather than	(& Cut, Stitch & Join)	materials determine	3. To know that some
& Pull		squares.		how they can and cannot be used.	ingredients need to be prepared before they
		3.To know that an	3.To know that	(& Cut, Stitch & Join)	can be cooked or eaten.
		embellishment is a	products can be	(& Push & Pull)	
		decorative detail or	compared by looking		
		feature added to	at particular	3.To know that a	
		something to make it	characteristics of	mechanism is a	
		more attractive.	each.	device that takes	

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		4.To know that running stitch is a basic stitch that is used to join fabric	4.To know that products can be improved in different ways. (& Push & Pull)	one type of motion or force and produces a different one.	
Year 2	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Skills (Disciplinary knowledge) Topic: Remarkable recipes Topic: Beach Hut	1.Generate and communicate their ideas through a range of different method (& Beach Hut) (& Cut, Stitch & Join)	1.Select the appropriate tool for a task and explain their choice. (& Beach Hut) 2.Explore how a structure can be made stronger, stiffer and more stable.	1.Explain how closely their finished products meet their design criteria and say what they could do better in the future. (& Beach Hut) (& Cut, Stitch & Join) (& Push & Pull)	1.Work safely and hygienically in construction and cooking activities. 2.Choose appropriate components and materials and suggest ways of manipulating them	 1.Describe the types of food needed for a healthy and varied diet and apply the principles to make a simple, healthy meal. 2. Identify the origin of some common foods. 3. Prepare ingredients
Topic: Cut, Stitch & Join Topic: Push & Pull		3.Add simple decorative embellishments.4. Use different methods of joining	2.Explain why a designer or inventor is important. (& Cut, Stitch & Join)	to achieve the desired effect. (& Cut, Stitch & Join) (& Push & Pull)	by peeling, grating, chopping and slicing.



Year 1	Design	Make	Evaluate	Technical knowledge	Cooking and Nutrition
Knowledge (Substantive)	1.To know that design criteria are the explicit goals that a project	1.To know that rules are made to keep people safe from danger.	1.To know that two products can be compared by looking at a set of criteria and	1.To know that different materials can be used for different purposes,	1.To know how to use non-standard measures as a way of measuring that does not involve
Topic: Shade & Shelter	must achieve. (& Taxi)	(& Chop, slice & mash)	scoring both products against each one.	depending on their properties.	reading scales.
Topic: Taxi Topic: Chop, slice & mash	(& Chop, slice & mash)	2.To know that different materials are suitable for different purposes, depending	2.To know that strength is a good quality of a piece of	2.To know that everyday products are objects that are used routinely at	2.To know that fruit and vegetables are an important part of a healthy diet.
		on their specific properties.	work. A weakness is an area that could be improved.	home and school. (& Taxi)	3.To know that some foods come from animals, such as meat,
		3.To know that specific tools are used for particular purposes.	(& Taxi) (& Chop, slice & mash)		fish and dairy products
			3.To know that two products can be compared by looking at a set of criteria.		

	Design	Make	4.To know the importance of a product is that it fulfils its goals and performs a useful purpose. Evaluate	Technical	Cooking and
Year 1	Design	IVIANE	Evaluate	knowledge	Nutrition
Skills (Disciplinary knowledge) Topic: Shade & Shelter Topic: Taxi Topic: Chop, slice & mash	1.Create a design to meet simple design criteria. (& Taxi) (& Chop, slice & mash)	1.Follow the rules to keep safe during a practical task. (& Chop, slice & mash) 2. Select and use a range of materials, beginning to explain their choices. 3.Select the appropriate tool for a simple practical task.	1.Describe the similarities and differences between two products. 2.Talk about their own and each other's work, identifying strengths or weaknesses and offering support. (& Taxi) (& Chop, slice & mash) 3.Describe the similarities and	1.Construct simple structures, models or other products using a range of materials. 2.Name and explore a range of everyday products and describe how they are used. (& Taxi)	 Measure and weigh food items using nonstandard measures, such as spoons and cups. Select healthy ingredients for a fruit or vegetable salad. Sort foods into groups by whether they are from an animal or plant source.

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differences between	
two products.	
4.Describe why a product is important.	