

EVFS - Development matters - 0-3 Express ideas and feelings through making marks, and sometimes give a meaning to the marks they make. Explore different materials, using all their senses to investigate them. Manipulate and play with different materials. Use their imagination as they consider what they can do with different materials. Make simple models which express their ideas. 3-4 Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park. Explore different materials freely, to develop their ideas about how to use them and what to make. Develop their own ideas and then decide which materials to use to express them. Join different materials and explore different textures. Reception Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills.

KS1 - When designing and making, pupils should be taught to: Design & design purposeful, functional, appealing products for themselves and other users based on design criteria & generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology Make & select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] & select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics Evaluate & explore and evaluate a range of existing products & evaluate their ideas and products against design criteria Technical knowledge & build structures, exploring how they can be made stronger, stiffer and more stable & explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.

KS2 - When designing and making, pupils should be taught to: Design * use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups * generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design Make * select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately * select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities Evaluate * investigate and analyse a range of existing products * evaluate their ideas and products against their own design criteria and consider the views of others to improve their work * understand how key events and individuals in design and technology have helped shape the world Technical knowledge * apply their understanding of how to strengthen, stiffen and reinforce more complex structures * understand and use electrical systems in their products [for example, gears, pulleys, cams, levers and linkages] * understand and use electrical systems in their products [for example, series circuits incorporating switches, bulbs, buzzers and motors] * apply their understanding of computing to program, monitor and control their products.

Cooking and Nutrition Pupils should be taught to: Key stage 1 * use the basic principles of a healthy and varied diet to prepare dishes * understand where food comes from. Key stage 2 * understand and apply the principles of a healthy and varied diet * prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques * understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.

Aspect	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Nursery						
	Reception						
Everyday products	Everyday products are	Everyday products are	Products can be improved in	Particular products have	Design features are the	Culture is the language,	People's lives have been
	objects that we use every	objects that are used	different ways, such as	been designed for specific	aspects of a product's	inventions, ideas and art of	improved in countless ways
	day. These objects have a	routinely at home and	making them easier to use,	tasks, such as nail clippers,	design that the designer	a group of people. A society	due to new inventions and
	specific use. Name and	school, such as a	more hardwearing or more	the spinning top and the cool	would like to emphasise,	is all the people in a	designs. For example, the
	explore a range of everyday	toothbrush, cup or pencil.	attractive. Explain how an	box. Explain how an existing	such as the use of a	community or group. Culture	Morrison shelter, designed
	products and begin to talk	All products are designed	everyday product could be	product benefits the user.	particular material or	affects the design of some	by John Baker in 1941, was
	about how they are used.	for a specific purpose.	improved.		feature that makes the	products. For example,	an indoor air-raid shelter
		Name and explore a range			product easier to use or	knives and forks are used in	used in over half a million
	Autumn 1 All about	of everyday products and			more durable. <mark>Investigate</mark>	the western world, whereas	homes during the Second
	Me/Families/Autumn	describe how they are used.		Spring term Electrical	and identify the design	chopsticks are used mainly	World War. It saved the
	Autumn 2 Traditional		Autumn term Shade and	components/Engineer	features of a familiar	in China and Japan. The	lives of many people caugh
	tales/Diwali/Bonfire	Autumn term Shade and	Shelter Spring term Taxi	Summer term Food for	product.	design of products needs to	in bombing raids. Analyse
	night/Christmas	Shelter Spring term Taxi	2022-2023	life/Make do and mend		take into account the	how an invention or produc
	Spring 1 Animals/Mythical	2022-2023		2022-2023	Spring term Electrical	culture of the target	has significantly changed o
	creatures/Chinese new year		Summer term Cut, stitch		components/Engineer	audience. For example,	improved people's lives.
	Spring 2 Spring/Easter		and join/Push and pull 2023-	Spring term Making it move	Summer term Food for	colours might mean very	· · ·
	Summer 1 Transport		2024	Summer term Greenhouse	life/Make do and mend	different things in	Spring term Electrical
	Summer 2			2023-2024	2022-2023	different cultures. Explain	components/Engineer
	Dinosaurs/Superheroes					how the design of a product	Summer term Food for
					Spring term Making it move	has been influenced by the	life/Make do and mend
	Autumn 1 Ourselves/My				Summer term Greenhouse	culture or society in which it	2022-2023
	community people that help				2023-2024	was designed or made.	
	us Autumn 2 Light and					Spring term Electrical	Spring term Making it move
	Dark/Once upon a				Autumn term Fresh food,	components/Engineer	Summer term Greenhouse
	time/Christmas				good food Spring term	Summer term Food for	2023-2024
	Spring 1				Functional and fancy fabrics	life/Make do and mend	
	Dinosaurs/Space/transport				Summer term Tomb builders	2022-2023	Autumn term Fresh food,
					2024-2025		good food Spring term



			<mark>Skills - highli</mark> g	<mark>hted in yellow</mark>			
	Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food					Spring term Making it move Summer term Greenhouse 2023-2024	Functional and fancy fabrics Summer term Tomb builders 2024-2025
	Summer 2 If you go down into the woods					Autumn term Fresh food, good food Spring term Functional and fancy fabrics Summer term Tomb builders 2024-2025	Autumn term Moving mechanisms Summer term Architecture 2025-2026
						Autumn term Moving mechanisms Summer term Architecture 2025-2026	
Staying safe	Rules keep us safe when using equipment. Safety rules include always listening carefully and following simple instructions, using equipment only for the tasks they are designed for and washing hands before touching food. Follow rules and instructions to keep safe. Autumn 1 All about Me/Families/Autumn Autumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food	Rules are made to keep people safe from danger. Safety rules include always listening carefully and following instructions, using equipment only as and when directed, wearing protective clothing if appropriate and washing hands before touching food. Follow the rules to keep safe during a practical task. Autumn term Shade and shelter, Spring term Taxi, Summer term Chop, Slice and Mash 2022-2023	Hygiene rules include washing hands before handling food, cleaning surfaces, tying long hair back, storing food appropriately and wiping up spills. Work safely and hygienically in construction and cooking activities. Autumn term Shade and shelter, Spring term Taxi, Summer term Chop, Slice and Mash 2022-2023 Autumn term remarkable recipes/ spring term Beach hut, Summer term Push and pull 2023-2024	Electrical appliances must only be used under the supervision of an adult. Safety rules must also be followed when using electricity: fingers and other objects must not be put into electrical outlets, anything with a cord or plug should never be used around water and a plug should never be pulled out by its cord. Use appliances safely with adult supervision. Spring science electrical components 2022-23 Autumn term Cook well, eat well Summer Greenhouse 2023-2024	Chemicals are used in the home every day. They include cleaning products, such as bleach and disinfectant, but also paints, glues, oils, pesticides and medicines. Most chemical products carry a hazard symbol showing in what way the chemical could be harmful. Chemicals should only be used under adult supervision. Appropriate safety precautions, such as wearing goggles and gloves, working in a well-ventilated room, wiping up spills and tying back long hair, should be taken. Work safely with everyday chemical products under supervision, such as disinfectant hand wash and surface cleaning spray. Spring science electrical components 2022-23 Autumn term Cook well, eat well Summer Greenhouse 2023-2024 Autumn term Fresh food, and food 2024-2025	Safety features are often incorporated into products that might cause harm. Some examples include the child-safety caps on medicine bottles, seatbelts in cars, covers for electrical sockets and finger guards on doors. Explain the functionality and purpose of safety features on a range of products. Spring science electrical components 2022-23 Autumn term Cook well, eat well Summer Greenhouse 2023-2024 Autumn term Fresh food, good food 2024-2025 Autumn term Moving mechanisms 2025-2026	The safety of the user has to be taken into account when designing a new product. Methods to help keep users safe include providing clear instructions for use; clear indication of the age range for which it is designed; safety features (such as child-resistant packaging); warning symbols and electrical safety checks. Demonstrate how their products take into account the safety of the user. Spring science electrical components 2022-23 Autumn term Cook well, eat well Summer Greenhouse 2023-2024 Autumn term Fresh food, good food 2024-2025 Autumn term Moving mechanisms 2025-2026
Mechanisms and movement	Vehicles and machines have wheels and axles to help	An axle is a rod or spindle that passes through the	A mechanism is a device that takes one type of	Levers consist of a rigid bar that rotates around a fixed	good food 2024-2025 Mechanisms can be used to add functionality to a model.	Pneumatic systems use energy that is stored in	Mechanical systems can include sliders, levers,
	them move. <mark>Explore, build</mark> and play with a range of resources and construction	centre of a wheel to connect two wheels. <mark>Use</mark> wheels and axles to make a	motion or force and produces a different one. A mechanism makes a job	point, called a fulcrum. They reduce the amount of work needed to lift a heavy	For example, sliders or levers can be used in moving pictures, storybooks or	compressed air to do work, such as inflating a balloon to open a model monster's	linkages, gears, pulleys and cams. Other mechanisms include pneumatics and
	kits with wheels and axles.	simple moving model.	easier to do. Mechanisms include sliders, levers,	object. Sliders move from side to side or up and down,	simple puppets; linkages in moving vehicles or puppets;	mouth. These effects can be achieved using syringes	hydraulics. Explain and use mechanical systems in their
	Summer 1 Transport		linkages, gears, pulleys and	and are often used to make	gears in motorised vehicles	and plastic tubing. <mark>Use</mark>	

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			<mark>Skills - highlig</mark>	<mark>hted in yellow</mark>			
	Autumn 1 Ourselves/My	Spring term Taxi 2022-	cams. <mark>Use a range of</mark>	moving parts in books. Axles	or spinning toys; pulleys in	<mark>mechanical systems in their</mark>	<mark>products to meet a design</mark>
	community people that help	2023	<mark>mechanisms (levers, sliders,</mark>	are shafts on which wheels	cable cars or transport	<mark>products, such as</mark>	brief.
	us		wheels and axles) in models	can rotate to make a moving	systems and cams in 3-D	<mark>pneumatics.</mark>	
	Spring 1		<mark>or products.</mark>	vehicle. Cams are devices	moving toys or pictures.		Spring term Making it move
	Dinosaurs/Space/transport			that can convert circular	Explore and use a range of	Spring term Making it move	2023-2024
	Summer 2 If you go down		Spring term Taxi 2022-	motion into up-and-down	<mark>mechanisms (levers, axles,</mark>	2023-2024	
	into the woods		2023	motion. <mark>Explore and use a</mark>	<mark>cams, gears and pulleys) in</mark>		Summer term Tomb builders
				<mark>range of mechanisms</mark>	<mark>models or products.</mark>	Summer term Tomb builders	2024-2025
			Summer term Push and pull	<mark>(levers, sliders, axles,</mark>		2024-2025	
			2023-2024	wheels and cams) in models	Spring term Making it move		Autumn term Moving
				<mark>or products.</mark>	2023-2024	Autumn term Moving	mechanisms 2025-2026
						mechanisms 2025-2026	
				Spring term Making it move 2023-2024	Summer term Tomb builders 2024-2025		
Electricity	Many appliances at home	Electricity is a form of	A series circuit is made up	An electric circuit can be	Components can be added to	Electrical circuits can be	Computer programs can
	and school need electricity	energy. Many household	of an energy source, such as	used in a model, such as a	circuits to achieve a	controlled by a simple	control electrical circuits
This is taught within our	to work. The appliances	appliances use electricity,	a battery or cell, wires and	lighthouse. It can be	particular goal. These	on/off switch, or by a	that include a variety of
science units of learning -	need to be attached to	such as kettles, televisions	a bulb. The circuit must be	controlled using a switch.	include bulbs for	variable resistor that can	components, such as
Electrical components in	electricity through a plug	and washing machines. They	complete for the electricity	Incorporate a simple series	lighthouses and torches,	adjust the size of the	switches, lamps, buzzers
Spring term.	and socket, or use	can be switched on by	to flow. Create an	circuit into a model.	buzzers for burglar alarms	current in the circuit. Real-	and motors. Understand and
	batteries. Identify products	completing the circuit to	operational, simple series		and electronic games,	life examples are a dimmer	use electrical circuits that
	that use electricity to make	allow the flow of electricity	circuit.		motors for fairground rides	switch for lights or volume	incorporate a variety of
	them work.	or off by breaking the			and motorised vehicles and	control on a stereo. Use	components (switches,
		circuit to prevent			switches for lights and	electrical circuits of	lamps, buzzers and motors)
		electricity from flowing. This can be a switch on the			televisions. Incorporate	increasing complexity in	and use programming to
					circuits that use a variety	their models or products,	control their products.
		appliance or a wall socket switch. Identify products			of components into models	showing an understanding of	
		that use electricity to make			or products.	control.	
		them work and describe how					
		to switch them on and off.					
Generation of ideas	Create collaboratively,	Design criteria are the	Ideas can be communicated	Design criteria are the	Annotated sketches and	A pattern piece is a drawing	Design criteria should cover
	share ideas and use a	explicit goals that a project	in a variety of ways,	exact goals a project must	exploded diagrams show	or shape used to guide how	the intended use of the
	variety of resources to	must achieve. <mark>Create a</mark>	including written work,	achieve to be successful.	specific parts of a design,	to make something. There	product, age range targeted
	make products inspired by	<mark>design to meet simple design</mark>	drawings and diagrams,	These criteria might include	highlight sections or show	are many different	and final appearance. Ideas
	existing products, stories or	<mark>criteria.</mark>	modelling, speaking and	the product's use,	functions. They	computer-aided design	can be communicated in a
	<mark>their own ideas, interests or</mark>		using information and	appearance, cost and target	communicate ideas in a	packages for designing	range of ways, including
	<mark>experiences.</mark>	Autumn term Shade and	communication technology.	user. <mark>Develop design criteria</mark>	visual, detailed way. <mark>Use</mark>	products. <mark>Use pattern</mark>	through discussion,
		shelter, Spring term Taxi,	Generate and communicate	<mark>to inform a design</mark>	annotated sketches and	pieces and computer-aided	annotated sketches, cross-
	Autumn 1 All about	Summer term Chop, Slice	<mark>their ideas through a range</mark>		<mark>exploded diagrams to test</mark>	<mark>design packages to design a</mark>	sectional and exploded
	Me/Families/Autumn	and Mash 2022-2023	<mark>of different methods.</mark>	Spring term electrical	and communicate their	<mark>product.</mark>	diagrams, prototypes,
	Autumn 2 Traditional			components/engineer 2022-	<mark>ideas.</mark>		pattern pieces and
	tales/Diwali/Bonfire		Autumn term Shade and	2023		Spring term electrical	computer-aided design.
	night/Christmas		shelter, Spring term Taxi,		Spring term electrical	components/engineer 2022-	Develop design criteria for
	Spring 1 Animals/Mythical		Summer term Chop, Slice	Autumn term Cook well, eat	components/engineer 2022-	2023	a functional and appealing
	creatures/Chinese new year		and Mash 2022-2023	well Spring term Making it	2023		product that is fit for
	Spring 2 Spring/Easter			move Summer term		Autumn term Cook well, eat	purpose, communicating
	Summer 1 Transport		Autumn term remarkable	Greenhouse 2023-2024	Autumn term Cook well, eat	well Spring term Making it	<mark>ideas clearly in a range of</mark>
	Summer 2		recipes/ spring term Beach		well Spring term Making it	move Summer term	ways.
	Dinosaurs/Superheroes		hut, Summer term Cut		move Summer term	Greenhouse 2023-2024	
			stitch and join/Push and pull		Greenhouse 2023-2024		Spring term electrical
	Autumn 1 Ourselves/My		2023-2024			Autumn term Fresh food,	components/engineer 2022-
	community people that help				Autumn term Fresh food,	good food Spring term	2023
	us Autumn 2 Light and		1	1	good food Spring term	Functional and fancy fabrics	

			Skills - highlig	gnieu in yenow			
	Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down into the woods				Functional and fancy fabrics Summer term Tomb builders 2024-2025	Summer term Tomb builders 2024-2025 Summer term Architecture 2025-2026	Autumn term Cook well, eat well Spring term Making it move Summer term Greenhouse 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics Summer term Tomb builders 2024-2025 Summer term Architecture 2025-2026
Structures	Different materials have different properties and can be used for different purposes. Construct simple structures and models using a range of materials.Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/SuperheroesAutumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down inte the umade	Different materials can be used for different purposes, depending on their properties. For example, cardboard is a stronger building material than paper. Plastic is light and can float. Clay is heavy and will sink. Construct simple structures, models or other products using a range of materials. Autumn term Shade and shelter, Spring term Taxi, 2022-2023	Structures can be made stronger, stiffer and more stable by using cardboard rather than paper and triangular shapes rather than squares. A broader base will also make a structure more stable. Explore how a structure can be made stronger, stiffer and more stable. Autumn term Shade and shelter, Spring term Taxi, 2022-2023 Spring term Beach hut, Summer Push and pull 2023- 2024	Shell structures are hollow, 3-D structures with a thin outer covering, such as a box. Frame structures are made from thin, rigid components, such as a tent frame. The rigid frame gives the structure shape and support. Diagonal struts can strengthen the structure. Create shell or frame structures using diagonal struts to strengthen them. Spring term Engineer 2022- 2023 Summer term Greenhouse 2023-2024	A prototype is a mock-up of a design that will look like the finished product but may not be full size or made of the same materials. Shell and frame structures can be strengthened by gluing several layers of card together, using triangular shapes rather than squares, adding diagonal support struts and using 'Jinks' corners (small, thin pieces of card cut into a right- angled triangle and glued over each joint to straighten and strengthen them). Prototype shell and frame structures, showing awareness of how to strengthen, stiffen and reinforce them. Spring term Engineer 2022- 2023 Summer term Greenhouse 2023-2024 Autumn term Fresh food, Good food 2024-2025	Various methods can be used to support a framework. These include cross braces, guy ropes and diagonal struts. Frameworks can be built using lolly sticks, skewers and bamboo canes. Build a framework using a range of materials to support mechanisms. Spring term Engineer 2022- 2023 Summer term Greenhouse 2023-2024 Autumn term Fresh food, Good food 2024-2025 Autumn term Moving Imechanisms Summer term Architecture 2025-2026	Strength can be added to a framework by using multiple layers. For example, corrugated cardboard can be placed with corrugations running alternately vertically and horizontally. Triangular shapes can be used instead of square shapes because they are more rigid. Frameworks can be further strengthened by adding an outer cover. Select the most appropriate materials and frameworks for different structures, explaining what makes them strong. Spring term Engineer 2022- 2023 Summer term Greenhouse 2023-2024 Autumn term Fresh food, Good food 2024-2025 Autumn term Moving mechanisms Summer term Architecture 2025-2026
Investigation	into the woods Different tools are needed for different tasks. For example, pencils and paper are needed for drawing pictures. Choose and explore appropriate tools for simple practical tasks.	Specific tools are used for particular purposes. For example, scissors are used for cutting and glue is used for sticking. Select the appropriate tool for a simple practical task.	Different tools have characteristics that make them suitable for specific purposes. For example, scissors are used for cutting paper because they have sharp, metal blades that can cut through thin materials. Select the	Specific tools can be used for cutting, such as saws. Wood can be joined using glue, nails, staples, or a combination of these. Safety rules must be followed to prevent injury from sharp blades. These rules include using a bench	Useful tools for cutting include scissors, craft knives, junior hacksaws with pistol grip and bench hooks. Useful tools for joining include glue guns. Tools should only be used with adult supervision and safety rules must be followed.	There are many rules for using tools safely and these may vary depending on the tools being used. For example, someone using a chisel should chip or cut with the cutting edge pointing away from their body. All tools should be	Precision is important in producing a polished, finished product. Correct selection of tools and careful measurement can ensure the parts fit together correctly. Select appropriate tools for a task

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			<mark>Skills - highli</mark> g	<mark>hted in yellow</mark>			
	Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/Superheroes Autumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down	Spring term Taxi Summer term Chop, Slice and Mash 2022-2023	appropriate tool for a task and explain their choice. Spring term Taxi Summer term Chop, Slice and Mash 2022-2023 Autumn term Remarkable recipes Spring term Beach hut Summer term Cut, stitch and join and push and pull 2023-2024	hook to keep the wood still, using a junior hacksaw with a pistol grip and working under adult supervision. Use tools safely for cutting and joining materials and components. Autumn term Food for life Spring term Engineer Summer make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024	Select, name and use tools with adult supervision. Autumn term Food for life Spring term Engineer Summer make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024 Spring term Functional and fancy fabrics 2024-2025	cleaned and put away after use, and should not be used if they are loose or cracked. Name and select increasingly appropriate tools for a task and use them safely. Autumn term Food for life Spring term Engineer Summer make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024 Spring term Functional and fancy fabrics 2024-2025 Autumn term Moving mechanisms 2025-2026	and use them safely and precisely. Autumn term Food for life Spring term Engineer Summer make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024 Spring term Functional and fancy fabrics 2024-2025 Autumn term Moving mechanisms 2025-2026
Evaluation	into the woods Recognise that it is possible to change and alter their designs and ideas as they are making them. Adapt and refine their work as they are constructing and making. Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/Superheroes Autumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter	A strength is a good quality of a piece of work. A weakness is an area that could be improved. Talk about their own and each other's work, identifying strengths or weaknesses and offering support. Spring term Taxi Summer term Chop, Slice and Mash 2022-2023	Finished products can be compared with design criteria to see how closely they match. Improvements can then be planned. Explain how closely their finished products meet their design criteria and say what they could do better in the future. Spring term Taxi Summer term Chop, Slice and Mash 2022-2023 Autumn term Remarkable recipes Spring term Beach hut Summer term Cut, stitch and join and push and pull 2023-2024	Asking questions can help others to evaluate their products, such as asking them whether the selected materials achieved the purpose of the model. Suggest improvements to their products and describe how to implement them, beginning to take the views of others into account. Spring term Electrical components/Engineer Summer term Food for life/Make do and mend 2022-2023 Autumn term Cook well, Eatwell Spring term Making it move Summer term Greenhouse 2023-2024	Evaluation can be done by considering whether the product does what it was designed to do, whether it has an attractive appearance, what changes were made during the making process and why the changes were made. Evaluation also includes suggesting improvements and explaining why they should be made. 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. Spring term Electrical components/Engineer Summer term Food for life/Make do and mend 2022-2023 Autumn term Cook well, Eatwell Spring term Making	Testing a product against the design criteria will highlight anything that needs improvement or redesign. Changes are often made to a design during manufacture. Test and evaluate products against a detailed design specification and make adaptations as they develop the product. Spring term Electrical components/Engineer Summer term Food for life/Make do and mend 2022-2023 Autumn term Cook well, Eatwell Spring term Making it move Summer term Greenhouse 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics Summer term Tomb builders 2024-2025	Design is an iterative process, meaning alterations and improvements are made continually throughout the manufacturing process. Evaluating a product while it's being manufactured, and explaining these evaluations to others, can help to refine it. Demonstrate modifications made to a product as a result of ongoing evaluation by themselves and to others. Spring term Electrical components/Engineer Summer term Food for life/Make do and mend 2022-2023 Autumn term Cook well, Eatwell Spring term Making it move Summer term Greenhouse 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics

			Skills - highlig	<mark>hted in yellow</mark>			
	Summer 1 Animals/Farm/Food Summer 2 If you go down into the woods				it move Summer term Greenhouse 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics Summer term Tomb builders 2024-2025	Autumn term Moving mechanisms Summer term Architecture 2025-2026	Summer term Tomb builders 2024-2025 Autumn term Moving mechanisms Summer term Architecture 2025-2026
Cutting and joining textiles	Children are still refining their cutting skills during this phase.	Scissors are used to cut fabrics. Glue and simple stitches, such as running stitch, can be used to join fabrics. Running stitch is made by passing a needle in and out of fabric at an even distance. Cut and join textiles using glue and simple stitches. Autumn term Funny faces and fabulous features 2022-2023	A running stitch is a basic stitch that is used to join fabric. It is made by passing a needle in and out of fabric at an even distance. Use different methods of joining fabrics, including glue and running stitch. Autumn term Funny faces and fabulous features 2022-2023 Summer term Cut, Stitch and join 2023-2024	A loom is a piece of equipment that is used for making fabric by weaving wool or thread. Weaving involves interlacing pieces of thread or yarn. Cut and join wools, threads and other materials to a loom. Summer term Make do and mend 2022-2023 Summer term Beautiful Botanicals 2023-2024	A hem runs along the edge of a piece of cloth or clothing. It is made by turning under a raw edge and sewing to give a neat and quality finish. Hand sew a hem or seam using a running stitch. Summer term Make do and mend 2022-2023 Summer term Beautiful Botanicals 2023-2024 Spring term Functional and fancy fabrics 2024-2025	A collage is artwork made by sticking materials, such as scraps of paper or fabric, onto a background. A mixed media collage is made using various materials and media, such as ink and paint. Combine stitches and fabrics with imagination to create a mixed media collage. Summer term Make do and mend 2022-2023 Summer term Beautiful Botanicals 2023-2024 Spring term Functional and fancy fabrics 2024-2025 Summer term Mixed Media 2025-2026	Pinning with dressmaker pins and tacking with quick, temporary stitches holds fabric together in preparation for and during sewing. Pin and tack fabrics in preparation for sewing and more complex pattern work. Summer term Make do and mend 2022-2023 Summer term Beautiful Botanicals 2023-2024 Spring term Functional and fancy fabrics 2024-2025 Summer term Mixed Media 2025-2026
Materials for purpose	Different materials are suitable for different purposes, such as construction kits for modelling and ingredients for baking. Select appropriate materials when constructing and making. Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/Superheroes Autumn 1 Ourselves/My community people that help	Different materials are suitable for different purposes, depending on their specific properties. For example, glass is transparent, so it is suitable to be used for windows. Select and use a range of materials, beginning to explain their choices. Autumn term Shade and Shelter Spring term Taxi 2022-2023	Properties of components and materials determine how they can and cannot be used. For example, plastic is shiny and strong but it can be difficult to paint. Choose appropriate components and materials and suggest ways of manipulating them to achieve the desired effect. Autumn term Shade and Shelter Spring term Taxi 2022-2023 Spring term Beach hut Summer term Cut, stitch and join and push and pull 2023-2024	Materials for a specific task must be selected on the basis of their properties. These include physical properties as well as availability and cost. Plan which materials will be needed for a task and explain why. Spring term Electrical components/Engineer Summer term Make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024	Different materials and components have a range of properties, making them suitable for different tasks. It is important to select the correct material or component for the specific purpose, depending on the design criteria. Recipe ingredients have different tastes and appearances. They look and taste better and are cheaper when in season. Choose from a range of materials, showing an understanding of their different characteristics. Spring term Electrical components/Engineer Summer term Make do and mend 2022-2023	Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques. Select and combine materials with precision. Spring term Electrical components/Engineer Summer term Make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics	It is important to understand the characteristics of different materials to select the most appropriate material for a purpose. This might include flexibility, waterproofing, texture, colour, cost and availability. Choose the best materials for a task, showing an understanding of their working characteristics. Spring term Electrical components/Engineer Summer term Make do and mend 2022-2023 Spring term Making it move Summer term Greenhouse 2023-2024

			Skills - highlig	ineu in yenow		
	us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down into the woods				Spring term Making it move Summer term Greenhouse 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics Summer term Tomb builders 2024-2025	Summer te 2024-2029 Autumn te mechanism Architectu
Decorating and embellishing textiles		Fabric can be decorated using materials and small objects, such as buttons and sequins. Decorations can be attached to the fabric by gluing, stapling or tying. Use gluing, stapling or tying to decorate fabric, including buttons and sequins. Autumn term Funny faces and fabulous features 2022-2023	Embellishment is a decorative detail or feature added to something to make it more attractive. Add simple decorative embellishments, such as buttons, prints, sequins and appliqué. Autumn term Funny faces and fabulous features 2022-2023 Summer term Cut, stitch and join 2023-2024	A loom weaving is a piece of fabric that has been woven on a loom by interlacing threads. An embellishment is a decorative detail or feature, such as a silk flower, tassel or bow, added to something to make it more attractive. Decorate a loom weaving using embellishments, such as natural or silk flowers, tassels and bows. Summer term Make do and mend 2022-2023 Summer term Beautiful Botanicals 2023-2024	Block printing techniques and fabric paint are used to create decorative, repeated patterns on fabrics. Create detailed decorative patterns on fabric using printing techniques. Summer term Make do and mend 2022-2023 Summer term Beautiful Botanicals 2023-2024 Spring term Functional and fancy fabrics 2024-2025	Applique is where piec are attach material b gluing. Use decoration artwork. Summer te mend 2022 Summer te Botanicals Spring ter fancy fabr Summer te 2025-2020
Food preparation and cooking	A recipe is set of instructions for preparing a dish and includes a list of the ingredients required. Follow instructions, including simple recipes, that include measures and ingredients. Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/Superheroes	Using non-standard measures is a way of measuring that does not involve reading scales. For example, weight may be measured using a balance scale and lumps of plasticine. Length may be measured in the number of handspans or pencils laid end to end. Measure and weigh food items using non- standard measures, such as spoons and cups. Summer term Chop, Slice, Mash 2022-2023	Some ingredients need to be prepared before they can be cooked or eaten. There are many ways to prepare ingredients: peeling skins using a vegetable peeler, such as potato skins; grating hard ingredients, such as cheese or chocolate; chopping vegetables, such as onions and peppers and slicing foods, such as bread and apples. Prepare ingredients by peeling, grating, chopping and slicing. Summer term Chop, Slice, Mash 2022-2023 Autumn term Remarkable recipes 2023-2024	Preparation techniques for savoury dishes include peeling, chopping, deseeding, slicing, dicing, grating, mixing and skinning. Prepare and cook a simple savoury dish. Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024	Cooking techniques include baking, boiling, frying, grilling and roasting. Identify and use a range of cooking techniques to prepare a simple meal or snack. Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food 2024-2025	Sweet disl desserts, s fruit pies Savoury di a salty or s rather tha Use an inc preparatio techniques or savoury Autumn te 2022-202 Autumn te well 2023- Autumn te good food

term Tomb builders 125 term Moving sms Summer term ture 2025-2026	Autumn term Fresh food, good food Spring term Functional and fancy fabrics Summer term Tomb builders 2024-2025 Autumn term Moving mechanisms Summer term Architecture 2025-2026
is a technique eces of material ched to another by stitching or	Fastenings hold a piece of clothing together. Types of fastenings include zips, press studs, Velcro and
se applique to add	buttons. <mark>Use different</mark>
on to a product or term Make do and 22-2023	methods of fastening for function and decoration, including press studs, Velcro and buttons.
term Beautiful ls 2023-2024	Summer term Make do and mend 2022-2023
erm Functional and brics 2024-2025	Summer term Beautiful Botanicals 2023-2024
term Mixed Media 126	Spring term Functional and fancy fabrics 2024-2025
	Summer term Mixed Media 2025-2026
ishes are usually s, such as cakes, s and trifles. dishes usually have r spicy flavour han a sweet one. hereasing range of tion and cooking es to cook a sweet ry dish. term Food for Life 123 term Cook well, eat 3-2024	Ingredients can usually be bought at supermarkets, but specialist shops may stock different items. Greengrocers sell fruit and vegetables, butchers sell meat, fishmongers sell fresh fish and delicatessens usually sell some unusual prepared foods, as well as cold meats and cheeses. Follow a recipe that requires a variety of techniques and source the necessary ingredients independently.
term Fresh food, d 2024-2025	Autumn term Food for Life 2022-2023

			Skills - highlig	<mark>ghted in yellow</mark>		
Nutrition	Autumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down into the woodsThere are healthy and unhealthy foods. Fruit and	Fruit and vegetables are an important part of a healthy	A healthy diet should include meat or fish,	There are five main food groups that should be eaten	Healthy snacks include fresh or dried fruit and	Spring te 2025-202 A balance body all t
	vegetables are an important part of a healthy diet. Suggest healthy ingredients that can be used to make simple snacks. Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/Superheroes	diet. It is recommended that people eat at least five portions of fruit and vegetables every day. Select healthy ingredients for a fruit or vegetable salad. Summer term Chop, Slice, Mash 2022-2023	starchy foods (such as potatoes or rice), some dairy foods, a small amount of fat and plenty of fruit and vegetables. Describe the types of food needed for a healthy and varied diet and apply the principles to make a simple, healthy meal. Summer term Chop, Slice, Mash 2022-2023 Autumn term Remarkable recipes 2023-2024	regularly as part of a balanced diet: fruit and vegetables; carbohydrates (potatoes, bread, rice and pasta); proteins (beans, pulses, fish, eggs and meat); dairy and alternatives (milk, cheese and yoghurt) and fats (oils and spreads). Foods high in fat, salt and sugar should only be eaten occasionally as part of a healthy, balanced diet. Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars).	vegetables, nuts and seeds, rice cakes with low-fat cream cheese, homemade popcorn or chopped vegetables with hummus. A healthy packed lunch might include a brown or wholemeal bread sandwich containing eggs, meat, fish or cheese, a piece of fresh fruit, a low-sugar yoghurt, rice cake or popcorn and a drink, such as water or semi-skimmed milk. Design a healthy snack or packed lunch and explain why it is healthy.	needs to This mear variety of correct p Evaluate r if they co balanced Autumn th 2022-202 Autumn th well 2023 Autumn th good food
	Autumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 1 Dinosaurs/Space/transport Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down into the woods			Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024	Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food 2024-2025	Spring tel 2025-202
Origins of food	Food comes from different sources, including from animals, such as meat, fish, eggs and dairy, or from plants, such as fruit and vegetables. Begin to identify the origins of some foods.	Some foods come from animals, such as meat, fish and dairy products. Other foods come from plants, such as fruit, vegetables, grains, beans and nuts. Sort foods into groups by	Food comes from two main sources: animals and plants. Cows provide beef, sheep provide lamb and mutton and pigs provide pork, ham and bacon. Examples of poultry include chickens, geese and turkeys. Examples of fish	The types of food that will grow in a particular area depend on a range of factors, such as the rainfall, climate and soil type. For example, many crops, such as potatoes and sugar beet, are grown in the south-east	Particular areas of the world have conditions suited to growing certain crops, such as coffee in Peru and citrus fruits in California in the United States of America. Identify and name foods that are produced in	Seasonali year when flavour of at its bes food is be reasons: t better; it because i

erm Eat the seasons 126	Autumn term Cook well, eat well 2023-2024
	Autumn term Fresh food, good food 2024-2025
	Spring term Eat the seasons 2025-2026
ed diet gives your the nutrients it function correctly. ans eating a wide of foods in the proportions. meals and consider ontribute towards a diet.	Eating a balanced diet is a positive lifestyle choice that should be sustained over time. Food that is high in fat, salt or sugar can still be eaten occasionally as part of a balanced diet. Plan a healthy daily diet, justifying why each meal contributes towards a
term Food for Life 123	balanced diet.
term Cook well, eat 3-2024	Autumn term Food for Life 2022-2023
term Fresh food, d 2024-2025	Autumn term Cook well, eat well 2023-2024
erm Eat the seasons 126	Autumn term Fresh food, good food 2024-2025
	Spring term Eat the seasons 2025-2026
ity is the time of	Organic produce is food
en the harvest or	that has been grown without
of a type of food is	the use of man-made fertilisers, pesticides,
st. Buying seasonal eneficial for many	growth regulators or animal
the food tastes	feed additives. Organic
t is fresher	farmers use crop rotation,
it hasn't been	animal and plant manures,

		Design a	nd Technology - Knowledg	E (VC) Primary School e and Skills Progression c <mark>hted in yellow</mark>	locument		
	Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Autumn 1 Ourselves/My community people that help us Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food	whether they are from an animal or plant source. Summer term Chop, Slice, Mash 2022-2023	include cod, salmon and shellfish. Milk comes mainly from cows but also from goats and sheep. Most eggs come from chickens. Honey is made by bees. Fruit and vegetables come from plants. Oils are made from parts of plants. Sugar is made from plants called sugar cane and sugar beet. Plants also give us nuts, such as almonds, walnuts and hazelnuts. Identify the origin of some common foods (milk, eggs, some meats, common fruit and vegetables). Summer term Chop, Slice, Mash 2022-2023 Autumn term Remarkable	of England. Wheat, barley and vegetables grow well in the east of England. Identify and name foods that are produced in different places. Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024	different places in the UK and beyond. Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food 2024-2025	transported thousands of miles; the nutritional value is higher; the carbon footprint is lower, due to reduced transport; it supports local growers and is usually cheaper. Describe what seasonality means and explain some of the reasons why it is beneficial. Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food 2024-2025 Spring term Eat the seasons 2025-2026	and hand-weeding and biological pest control. Explain how organic produce is grown. Autumn term Food for Life 2022-2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food 2024-2025 Spring term Eat the seasons 2025-2026
Significant people or inventions	Some products are significant because they have changed the way people live their lives. Explore significant products. Autumn 1 All about Me/Families/Autumn Autumn 2 Traditional tales/Diwali/Bonfire night/Christmas Spring 1 Animals/Mythical creatures/Chinese new year Spring 2 Spring/Easter Summer 1 Transport Summer 2 Dinosaurs/Superheroes Autumn 1 Ourselves/My community people that help us Autumn 2 Light and Dark/Once upon a time/Christmas Spring 2 Growing/Weather Easter Summer 1 Animals/Farm/Food Summer 2 If you go down into the woods	The importance of a product may be that it fulfils its goals and performs a useful purpose. Describe why a product is important. Spring term Taxi Summer term Chop, Slice, Mash 2022-2023 Autumn term Remarkable recipes 2023-2024	recipes 2023-2024 Many key individuals have helped to shape the world. These include engineers, scientists, designers, inventors and many other people in important roles. Explain why a designer or inventor is important. Spring term Taxi Summer term Chop, Slice, Mash 2022-2023 Autumn term Remarkable recipes 2023-2024	Key inventions in design and technology have changed the way people live. Describe how key events in design and technology have shaped the world. Spring term Engineer 2022- 2023 Autumn term Cook well, eat well 2023-2024	Significant designers and inventors can shape the world. Explain how and why a significant designer or inventor shaped the world. Spring term Engineer 2022- 2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics 2024-2025	Many new designs and inventions influenced society. For example, labour-saving devices in the home reduced the amount of housework, which was traditionally done by women. This enabled them to have jobs. Describe the social influence of a significant designer or inventor. Spring term Engineer 2022- 2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabrics 2024-2025 Summer term Architecture 2025-2026	The significance of a designer or inventor can be measured in various ways. Their work may benefit society in health, transport communication, education, the built environment or technology. It may enhance culture in different areas, such as fashion, ceramics or computer games. Present a detailed account of the significance of a favourite designer or inventor. Spring term Engineer 2022 2023 Autumn term Cook well, eat well 2023-2024 Autumn term Fresh food, good food Spring term Functional and fancy fabric: 2024-2025 Summer term Architecture 2025-2026

