





## NATIONAL CURRICULUM

By the end of each key stage, pupils are expected to know, apply and understand the matters, skills and processes specified in the relevant programme of study.

## Key Stage 1:

Through a variety of creative and practical activities, pupils should be taught:

- \* the knowledge, understanding and skills needed to engage in an iterative process of designing and making.
- \* They should work in a range of relevant contexts, such as the home and school, gardens and playgrounds, the local community, industry and the wider environment.
- \* use the basic principles of a healthy and varied diet to prepare dishes
- understand where food comes from.

## Key Stage 2:

Through a variety of creative and practical activities, pupils should be taught:

- \* knowledge, understanding and skills needed to engage in an iterative process of designing and making.
- \* they should work in a range of relevant contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment.

  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.

<mark>AREA</mark>	Y1	Y2	Y3	Y4	Y5	Y6
	Draw on their own	Generate ideas by	Generate some	Generate ideas,	Generate ideas	Communicate their
	experience to help	drawing on their	independently	considering the	through	ideas through
Design	generate ideas	own and other	thought ideas for	purposes for which	brainstorming and	detailed labelled
		people's experiences	an item,	they are designing.	identify a purpose	drawings.
	Suggest ideas and		considering its		for their product.	-
	explain what they	Develop their	purpose and the	Make labelled		Develop a design
	are going to do	design ideas	user/s.	drawings from	Draw up a	specification
		through discussion,		different views	specification for	Explore, develop
	Identify a target	observation,	Identify a purpose	showing specific	their design	and communicate
	group for what they	drawing and	and establish	features.	Develop a clear idea	aspects of their
	intend to design	modelling	criteria for a		of what has to be	design proposals by
	and make	_	successful product	Develop a clear idea	done, planning how	modelling their
		Identify a purpose	(eg pop up books –	of what has to be	to use materials,	ideas in a variety of
	Model their ideas	for what they	why they are	done, planning how	equipment and	ways.
	in card and paper	_	needed)	to use materials,	processes, and	_

	Develop their design ideas applying findings from their earlier research	intend to design and make Identify simple design criteria Make simple drawings and label parts	Plan the order of their work before starting — learning the different types of mechanisms for the pop-up books.  Explore, develop and communicate design proposals by modelling ideas.  Make clear drawings with labels when	equipment and processes, and suggesting alternative methods of making, if the first attempts fail.  Evaluate products and identify criteria that can be used for their own designs	suggesting alternative methods of making if the first attempts fail.  Use results of investigations, information sources, including ICT when developing design ideas	Plan the order of their work, choosing appropriate materials, tools and techniques
			designing their final pieces.			
Make	Make their design using appropriate techniques  With help measure, mark out, cut and shape a range of materials  Use tools eg scissors and a hole punch safely  Assemble, join and combine materials and components together using a variety of temporary methods e.g., glues or masking tape	Begin to select tools and materials; use vocab' to name and describe them  Measure, cut and score with some accuracy  Use hand tools safely and appropriately  Assemble, join and combine materials in order to make a product  Cut, shape and join fabric to make a simple garment.	Select the appropriate tools and techniques for making their product.  Measure, mark out, cut, score and assemble using the correct equipment with some accuracy.  Work safely and accurately with a range of simple tools.  Think about their ideas as they make progress and be	Select appropriate tools and techniques for making their product.  Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques.  Join and combine materials and components accurately in temporary and permanent ways.	Select appropriate materials, tools and techniques.  Measure and mark out accurately.  Use skills in using different tools and equipment safely and accurately.  Weigh and measure accurately (time, dry ingredients, liquids).  Apply the rules for basic food hygiene and other safe practices e.g.,	Select appropriate tools, materials, components and techniques.  Assemble components make working models.  Use tools safely and accurately.  Construct products using permanent joining techniques.  Make modifications as they go along.

	Select and use appropriate fruit and vegetables, processes and tools  Use basic food handling, hygienic practices and personal hygiene  Use simple finishing techniques to improve the appearance of their product	Use basic sewing techniques  Follow safe procedures for food safety and hygiene  Choose and use appropriate finishing technique	willing change things if this helps them improve their work.  Measure, tape or pin, cut and join fabric with some accuracy.  Demonstrate hygienic food preparation and storage.  Use finishing techniques strengthen and improve the appearance of their	Sew using a range of different stitches, weave and knit.  Measure, tape or pin, cut and join fabric with some accuracy.  Use simple graphical communication techniques	hazards relating to the use of ovens.  Cut and join with accuracy to ensure a good-quality finish to the product	Pin, sew and stitch materials together create a product. Achieve a quality product
Evaluate	Evaluate their product by discussing how well it works in relation to the purpose  Evaluate their products as they are developed, identifying strengths and possible changes they might make	Evaluate against their design criteria  Evaluate their products as they are developed, identifying strengths and possible changes they might make  Talk about their ideas, saying what they like and dislike	product using a range of equipment including ICT Evaluate their product against original design criteria e.g., how well it meets its intended purpose.  Disassemble and evaluate familiar products	Evaluate their work both during and at the end of the assignment.  Evaluate their products carrying out appropriate tests	Evaluate a product against the original design specification.  Evaluate it personally and seek evaluation from others	Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests.  Record their evaluations using drawings with labels.  Evaluate against
	Evaluate their product by asking	about them				their original criteria and suggest

	questions about what they have made and how they have gone about it				ways that their product could be improved
Construction (including electronics)	Begin to measure and join different materials in appropriate ways (i.e., using glue, sticking tape)  Choose, with support, tools and equipment to perform practical tasks such as cutting, shaping and joining  Recognise the characteristics of a wide selection of materials and begin to choose them to meet the needs of a product  Make simple plans before making objects (i.e., drawings, arranging pieces of construction before the building)  Suggest ways to make	Begin to select tools and materials; use vocab' to name and describe them  Measure, cut and score with some accuracy  Use hand tools safely and appropriately  Assemble, join and combine materials in order to make a product  Cut, shape and join fabric to make a simple garment. Use basic sewing techniques  Follow safe procedures for food safety and hygiene  Choose and use appropriate finishing techniques	Select tools and materials; use vocab' to name and describe them  Use hand tools safely and appropriately  Assemble, join and combine materials accurately in order to make a product which suits the purpose.  Cut, shape and join fabric to make a simple garment. Use basic sewing techniques  Follow safe procedures for food safety and hygiene  Choose and use appropriate finishing techniques	Measure carefully to avoid mistakes  Attempt to make product strong  Continue working on product even if original didn't work  Make a strong, stiff structure  Select most appropriate tools / techniques  Explain alterations to product after checking it  Grow in confidence about trying new / different ideas  Use levers and linkages to create movement  Use pneumatics to create movement	Select materials carefully, considering intended use of the product, the aesthetics and functionality  Explain how product meets design criteria, reinforce and strengthen a 3D frame  Refine product after testing, considering aesthetics, functionality and purpose  Be confident to try new / different ideas  Use different types of circuit in product  Think of ways in which adding a circuit would improve product

	material/product stronger  Develop their own ideas from initial starting points			Use number of components in circuit  Program a computer to control product  Use simple circuit in product  Learn about how to program a computer to control product	
Food technology	Describe the texture of foods  Wash hands & clean surfaces  Think of interesting ways to decorate food  Sort foods according to those which are most healthy and can be eaten frequently and those which should be eaten in small amounts and less regularly  Group food products according	Explain hygiene and keep a hygienic kitchen  Describe properties of ingredients and importance of varied diet  Say where food comes from (animal, underground, etc.)  Describe how food is farmed, home- grown, caught  Draw eat well plate; explain there are groups of food  Describe "five a day"	Explain why hygiene is important in the kitchen.  Describe properties of ingredients and importance of varied diet through learning about nutrition  Say where food comes from (animal, underground, etc.)  Describe ideal and healthy diet for age group.  Cut, peel and grate with increasing	Explain how to be safe/hygienic  Think about presenting product in interesting/ attractive ways  Understand ingredients can be fresh, pre-cooked or processed  Begin to understand about food being grown, reared or caught in the UK or wider world  Describe eat well plate and how a healthy diet=variety/	Understand a recipe can be adapted by adding /substituting ingredients  Explain seasonality of foods  Learn about food processing methods Name some types of food that are grown, reared or caught in the UK or wider world  Adapt recipes to change appearance, taste, texture or aroma  Describe some of the different

	to similarities (i.e., fruit, vegetables)  Cut, peel and grate	Cut, peel and grate with increasing confidence	confidence alongside measuring accurate amounts for a	balance of food and drinks  Explain importance	substances in food and drink, and how they can affect health
	safely, with support		recipe.	of food and drink for active, healthy bodies  Prepare and cook some dishes safely and hygienically  Use some of the following techniques: peeling, chopping, slicing, grating, mixing, spreading, kneading and baking	Prepare and cook a variety of savoury dishes safely and hygienically including, where appropriate, the use of heat source  Use a range of techniques confidently such as peeling, chopping, slicing, grating, mixing, spreading, kneading and
Textiles	Management	Manager to the last	Measure textiles	Think about user	baking.  Think about user's
rextites	Measure, cut and join textiles to make a product, with	Measure textiles  Join textiles	and mark areas on the fabric.	when choosing textiles	wants/needs and aesthetics when
	some support	together to make a product, and	Join textiles	Think about how to	choosing textiles
	Choose suitable textiles	explain how I did it	together to make a product, and	make product strong	Make a prototype
	continue	Carefully cut textiles to produce accurate pieces	explain how I did it  Carefully cut textiles to produce	Begin to devise a template	Make product attractive and strong
		Explain choices of textile	accurate pieces  Explain choices of	Explain how to join things in a different	Use a range of joining techniques
		Understand that a 3D textile structure can be made from	textile  Understand that a  3D textile structure	way Understand that a simple fabric shape can be used to	Think about how product might be sold

	two identical fabric shapes	can be made from two identical fabric shapes	make a 3D textiles project	Think carefully about what would improve product
				Understand that a single 3D textiles project can be made from a combination of fabric shapes