	Autumn Term - Curriculum Focus	Spring Term -	Curriculum Focus	Summer Term - Curriculum Focus
		STEM Week — 7 th - 16 th March 202	5	
EYFS	Learning to use the creative area/maker space. Design and make a vegetable soup as a class.	Designing and making superhero costumes. Designing and making superhero vehicles using Lego remote controlled vehicles.	Construction kits — designing and making bridges for the Gingerbread Man. Designing and making a storytelling spoon puppet.	
PSED, UTW, Physical Developmen	Personal, Social and Emotional Development Select and use activities and resources, with help when needed. This helps them to achieve a goal they have chosen or one which is suggested to them. Physical Development — Fine Motor Skills Use large-muscle movements to wave flags and streamers, paint and make marks. Choose the right resources to carry out their own plan.		Understanding the World	plex 'small worlds' with blocks and construction kits, such as a
t and Expressive Arts and Design skill development links	 Use one-handed tools and equipment, for example, making snips in paper with scissors Progress towards a more fluent style of moving, with developing control and grace. Develop their small motor skills so that they can use a range of tools competently, safely and confidently. Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor Use a range of small tools, including scissors, paintbrushes and cutlery 		 Explore different materials freely, in order 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. Create closed shapes with continuous lines, and begin to use these shapes to represent objects. Explore, use and refine a variety of artistic effects to express their ideas and feelings. Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills. Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. 	
Key Vocabulary	Share their creations, explaining the process they have used. Textures, make, create, explain, hold, stick, stay, design, pinch, mould, build, connect, construct, attach Names of key tools - brush, pencil, glue, scissors, crayons, felt tips, chalk, glue gun Names of basic shapes - square, circle, star, triangle etc			
Y1	Structures — The children think about the different type of materials that could be recycled. They gather different materials, plan, design and create using the selection of skills below in order to create a robot structure.	Mechanisms — Fitting in with a cross curricular theme, the children recreate the Alice in Wonderland book using different sliders, levers and pop ups. They investigate the different types, plan and create an interactive book using the selection of skills.		Textiles — The children use their finalised Art and Design textiles piece to adapt and create a puppet of a minibeast, using the Design and Technology skills to modify the creation into a usable product.
Skills	Structures To refer to materials tools and techniques using appropriate vocabulary. To explore how to make structures stronger. To investigate different techniques for stiffening a variety of materials.		paper and card.	Textiles To start to use the appropriate vocabulary to refer to fabrics and tools. To cut out shapes which have been created by drawing round a template onto the fabric.

	are c of E i funding school	r — Design and recimology	Overview 2024-2025
Key Vocabulary	 To test different methods of enabling structures to remain stable. To join appropriately for different materials and situations e.g. glue, tape. To mark out materials to be cut using a template. To use a glue gun with close supervision cut, fold, join, fix structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder 	 To use a hole punch. To insert paper fasteners for card. To experiment with levers and sliders to find different ways of making things move slider, lever, pivot, slot, bridge/guide, card, masking tape, paper fastener, join, pull, push, up, down, straight, curve, forwards, backwards 	 To join fabrics by using e.g. running stitch, glue, staples, over sewing, tape. To decorate fabrics with attached items e.g. buttons, beads, sequins, braids, ribbons. To colour fabrics using a range of techniques e.g. fabric paints, printing, painting joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, join, decorate, finish
Y2		Food — The children work, using their cross curricular learning, to design and create a fruit salad, inspired by 'The Farm Shop'.	Mechanisms — The children design and create a form of seaside vehicle, focussing on the purpose and design of the product being suitable for the seaside.
Skills		 Food To explain where food comes from. To cut, peel, grate, chop a range of ingredients To work safely and hygienically. To measure and weigh food items, non-statutory measures e.g. spoons, cups. To develop a food vocabulary using taste, smell, texture and feel. To understand the need for a variety of foods in a diet. To group familiar food products e.g. fruit and Vegetables 	Mechanisms To use technical vocabulary when describing mechanisms, tools and materials they use. To try out different axle fixings and their strengths and weaknesses. To make vehicles with construction kits which contain free running wheels. To cut dowel using hacksaw and bench hook. To attach wheels to a chassis using an axle. To mark out materials to be cut using a template.
Key		fruit and vegetable names, names of equipment and utensils sensory	vehicle, wheel, axle, axle holder, chassis, body, assembling,
Vocabulary		vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients,	cutting, joining, shaping, finishing, fixed, free, moving, mechanism names of tools, equipment and materials used
Ongoing Y1/Y2 Key learning and skills	 Design To use pictures and words to convey what they want to design/make. To propose more than one idea for their product. To model ideas / make mock-ups with kits, reclaimed materials. To select appropriate technique explaining: First Next Last To explore ideas by rearranging materials/ingredients. To select pictures to help develop ideas. To use drawings to record ideas as they are developed. 		

OU P E	To name the tools they are using.	t - Design and Technology		
	To describe what they need to do next			
	<u>Evaluate</u>			
	• To explore existing products and investigate how they have been made.			
	To decide how existing products do/do not achieve their purpose.			
	 To talk about their design as they develop and identify 			
	 To note changes made during the making process as an 			
	• To say what they like and do not like about items they have made and attempt to say why.			
	• To discuss how closely their finished product meets their design criteria and how well it meets the needs of the user.			
	Structures— The children look into creating a Roman Chariot for	Food technology — Based on their cross curricular 'fruits and	Mechanical and Electrical Systems — The children look into	
	the purpose of testing the durability of a Roman Road, which is a	vegetables and healthy eating' topic, the children design and create a	the design of a Viking longship and how these worked long	
Y3	cross curricular link to Science and History. They research the	fruit smoothie, with the purpose of creating the smoothie for children	ago. They use a computer aided design programme to support	
	product and how it is created on a larger scale, using this to then	similar in age. They research into the smoothies that sell and why,	their design in creating a product which will have mechanical	
	create their own smaller version.	looking into the types and tastes, then developing their designs from	systems, and push their creation further by linking it up to an	
		this.	electrical system to 'light the way' on their ships.	
	<u>Structures</u>	<u>Food</u>	Mechanical and Electrical Systems and ICT (Computer	
	 To develop vocabulary related to the project. 	 To follow instructions/recipes. 	<u> Aided Design</u>)	
	 To create shell or frame structures. 	 To make healthy eating choices – use the Eatwell Plate 	 To develop vocabulary related to the project. 	
	 To strengthen frames with diagonal struts. 	 To join and combine a range of ingredients. 	 To use mechanical systems such as gears, pulleys, 	
	 To make structures more stable by giving them a wide 	 To explore seasonality of vegetables and fruit. 	levers and linkages.	
	base.	 To find out which fruit and vegetables are grown in 	 To incorporate a circuit into a model/product. 	
Skills	 To measure and mark square section, strip and dowel 	countries/continents studied in Geography.	 To use electrical systems such as switches bulbs 	
	accurately to 1cm		and buzzers.	
			 To use ICT to program and control products. 	
			 To use lolly sticks/card to make levers and 	
			linkages.	
			To use linkages to make movement larger or more	
			varied	
			 To use CAD where appropriate 	
V	shell structure, three-dimensional (3-D) shape, net, cube, cuboid,	name of products, names of equipment, utensils, techniques and	mechanism, lever, linkage, pivot, slot, bridge, guide system,	
Key	prism, vertex, edge, face, length, width, breadth, capacity,	ingredients texture, taste, sweet, sour, hot, spicy, appearance, smell,	input, process, output linear, rotary, oscillating, reciprocating	
Vocabulary	marking out, scoring, shaping, tabs, adhesives, joining, assemble,	preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown,		
J	accuracy, material, stiff, strong, reduce, reuse, recycle,	reared, caught, frozen, tinned, processed, seasonal, harvested		
	corrugating, laminating, font, lettering, text, graphics, decision	healthy/varied diet		
		Textiles – The children use their finalised Art and Design textiles piece	Food — With cross curricular links to the Egyptians, the	
Y4		of an Anglo Saxon design, to adapt and create a purse or bag, using	children use this knowledge to develop their understanding of	
		the Design and Technology skills to modify the creation into a usable	the popular Egyptian food Koshari. They plan, design and	
		product.	create a final product of a traditional Koshari dish.	
		<u>Textiles</u>	<u>Food</u>	
		To develop vocabulary for tools materials and their	To develop sensory vocabulary/knowledge using,	
Skills		properties.	smell, taste, texture and feel	
- Octics		To understand seam allowance.	To analyse the taste, texture, smell and appearance	
		To join fabrics using running stitch, over sewing, blanket	of a range of foods (predominantly savoury).	
		stitch.	To prepare and cook using a range of cooking	
		 To use prototype to make pattern. 	techniques.	

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		To explore strengthening and stiffening of fabrics.			
	• To explore fastenings and recreate some.				
		To sew on buttons and make loops.			
		 To use appropriate decoration techniques. 			
L/		fabric, names of fabrics, fastening, compartment, zip, button, structure,	name of products, names of equipment, utensils, techniques		
Key		finishing technique, strength, weakness, stiffening, templates, stitch,	and ingredients texture, taste, sweet, sour, hot, spicy,		
Vocabulary	seam, seam allowance appearance, smell, preference, greasy, moist, cook, fresh,				
	savoury, hygienic, edible, grown, reared, caught, frozen,				
			tinned, processed, seasonal, harvested healthy/varied diet		
	<u>Design</u>				
	 To develop more than one design or adaptation of an in 	iitial design.			
	 To plan a sequence of actions to make a product. 				
	 To record the plan by drawing using annotated sketche 	5.			
	To begin to use cross-sectional and exploded diagrams.				
	 To use prototypes to develop and share ideas. 				
	 To think ahead about the order of their work and decide upon tools and materials/ingredients. To propose realistic suggestions as to how they can achieve their design ideas. 				
• To consider aesthetic qualities of materials/ingredients chosen.					
	Make				
Ongoing	• To prepare pattern pieces as templates for their design.				
Y3/Y4 Key	To select from a range of tools for cutting shaping joining and finishing.				
	To use tools with accuracy.				
learning and	• To select from techniques for different parts of the process.				
skills	To select from materials according to their functional properties.				
SKIIIS	To plan the stages of the making process.				
	To use appropriate finishing techniques.				
	<u>Evaluate</u>				
	To investigate similar products to the one to be made to give starting points for a design.				
	To draw/sketch products to help analyse and understand how products are made.				
	To research needs of user.				
	To identify the strengths and weaknesses of their design ideas in relation to purpose/user.				
	To decide which design idea to develop.				
	To consider and explain how the finished product could be improved.				
	To discuss how well the finished product meets the desi				
	 To investigate key individuals in Design and Technology 	taran da antara ta da antara d			
	Mechanical and Electrical Systems and ICT (Programming) —	Food- The children are tasked to design a menu or the opening	Structures — The children look into the structures of famous		
VE	The children research about different vehicles which care used in	ceremony of the very first Olympic Games. The children plan, design	bridges, to further design and create a smaller version of a		
Y5	space, linking to their cross curricular work. They design and	and create one component from the menu.	bridge structure over the Amazon river.		
	create a form of transport to be used in space, ensuring to				
	include gears or pulleys in their creation.				
	Mechanical and Electrical Systems and ICT (Computer Aided	Food	Structures		
Skills	<u>Design</u>)	To prepare mostly savoury dishes using their own selection	To use the correct terminology for tools materials		
	To develop a technical vocabulary appropriate to the	of ingredients, taking into account their nutritional	and processes.		
	project.	properties and sensory characteristics.	To use bradawl to mark hole positions.		
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	 To use mechanical systems such as cams, pulleys and gears. To use electrical systems such as motors. To program, monitor and control products using ICT 	 To weigh and measure using scales. To know where and how ingredients are grown and processed To join and combine a widening range of ingredients. 	 To use hand drill to drill tight and loose fit holes. To cut strip wood, dowel, square section wood accurately to 1mm. To join materials using appropriate methods. To build frameworks to support mechanisms. To stiffen and reinforce complex structures
Key Vocabulary	pulley, drive belt, gear, rotation, spindle, driver, follower, axle, motor, circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output	ingredients, yeast, dough, bran, flour, wholemeal, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble	frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent
Y6	Textiles — The children will design, make do and mend a decoration with the purpose of fitting a festive theme and to be able to hang from a tree.		Food- The children will use their food technology skills to create a savoury meal inspired by the ingredients they would use in Stone Age Britain.
Skills	Textiles To use the correct vocabulary appropriate to the project. To create 3D products using patterns pieces and seam allowance. To understand pattern layout. To decorate textiles appropriately (often before joining components). To pin and tack fabric pieces together. To join fabrics using over sewing, back stitch, blanket stitch or machine stitching (closer supervision). To combine fabrics to create more useful properties. To make quality products		Food To select and prepare foods for a particular purpose. To develop understanding of a healthy diet (using the eatwell plate) and apply in their ingredient choices. To use a range of cooking techniques. To consider influence of recent chefs e.g. Jamie Oliver and school meals, Heston Blumentahal.
Key Vocabulary	seam, seam allowance, reinforce, right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles, thread, fastenings,	seam, seam allowance, reinforce, right side, wrong side, hem, template, pattern pieces, name of textiles and fastenings used, pins, needles, thread, fastenings,	ingredients, yeast, dough, bran, flour, wholemeal, unleavened, baking soda, spice, herbs fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy, intolerance, savoury, source, seasonality utensils, combine, fold, knead, stir, pour, mix, rubbing in, whisk, beat, roll out, shape, sprinkle, crumble
Ongoing Y5/Y6 Key learning and skills	 Design To list tools needed before starting the activity. To plan the sequence of work e.g. using a storyboard. To record ideas using annotated diagrams. To use models, kits and drawings to help formulate desi To combine modelling and drawing to refine ideas. To devise step by step plans which can be read / follow To use exploded diagrams and cross-sectional diagrams To sketch and model alternative ideas. To decide which design idea to develop. 	ed by someone else.	

Make

- To make prototypes.
- To develop one idea in depth.
- To use researched information to inform decisions.
- To produce detailed lists of ingredients / components / materials and tools.
- To select from and use a wide range of tools.
- To cut accurately and safely to a marked line.
- To select from and use a wide range of materials.
- To use appropriate finishing techniques for the project.
- To refine their product review and rework/improve.

Evaluate

- To research and evaluate existing products (including book and web based research).
- To consider user and purpose.
- To identify the strengths and weaknesses of their design ideas.
- To give a report using correct technical vocabulary.
- To consider and explain how the finished product could be improved related to design criteria.
- To discuss how well the finished product meets the design criteria of the user.
- To understand how key people have influenced design