Mechanical and electrical systems **Textiles** Food and **Structures** cooking Autumn - Homes and pirates, plans and ventures DT WEEK FOCUS—MAKING A BEDROOM Kev knowledge Kev skills Kev knowledge Kev skills To know that book front covers need to be attractive. To be able to cut character and item templates. To know materials can join together. To be able to cut simple shapes from paper or thin card. To know designs have different themes. To know mechanisms (sliders) need to move smoothly. To be able to use masking tape to hold a slider in place. To be able to glue together materials (paper, craft sticks, card). To know and have an awareness of the key design process steps To be able to glue together materials (paper and card). To know objects are made from different materials. To be able to use scissors safely. (design, make, evaluate). To know free-standing structures stand on their own base. To be able to follow simple teacher instructions to create an end To be able to measure by drawing around an object. product. To know and have an awareness of the key design process steps (design, To be able to begin to follow an iterative design process. To be able to begin to follow and design process. make, evaluate). To be able to use simple verbal evaluation and written against design To know boats must be able to float. To know polystyrene, cotton reels and plastic lids all float. To be able to saw wood with adult supervision. To have an awareness of the key design process steps (design, make, To be able to measure by drawing around an object. I give muself a star for evaluate). To be able to begin to follow an interactive design process. To know where glue needs to be applied. To be able to use a simple verbal evaluation against design criteria. To be able to apply glue accurately. and Technology Design a **1**1 Enquiry/question/outcome/activity Enquiry/question/outcome/activity To design and make a book cover with a working mechanism. To design and make a bedroom for a Lego character. To design and make a pirate ship for a stranded Barnes Bear which floats for a minute. Key vocabulary (tier 2) Key vocabulary (tier 3) Key vocabulary (tier 2) Key vocabulary (tier 3) bed (bunk bed) attractive slider materials buovant glue gun measure design iterative cut template carpet materials MDF obiect cut disc stick chair research evaluate polystyrene sink curtain flexible research design size waterproof soft free standing float theme hard wallpaper window lamp wood lights

Mechanical and electrical systems		Textiles		Food and cooking (Healthy and varied diet including cooking and nutrition)		Structures
				(Healthy and varied diet inc	cluding cooking and nutrition)	
Battles, burns and bandages Mechanisms (wheels and axles)		Myself and my surroundings		Autumn – Battles, burns and bandages Spring – Japan – Sushi		
					S - BREADMAKING	
Key knowledge To know fire engines need to transport water. To know an axle is a rod which allows a wheel to	Key skills To be able to use PVA glue to join a variety of materials including card and egg boxes.	Key knowledge To know a glove puppet has a soft, hollow body so that you can put your hand inside and move	Key skills To be able to develop our sewing skills by making puppets.	Key knowledge To know bread has different flavours and textures because of its ingredients.	Key skills To be able to roll play dough into a variety of bread shapes.	
rotate.	To be able to use masking tape to attach a variety of materials including straws and card.	its head and arms with your fingers. To know a puppet must look attractive.	To be able to join fabric using staplers, safety pins and sewing.	To know bread needs to be attractive.	To be able to work in a pair effectively.	
To know cars and fire engines need at least 4 wheels.	To be able to construct an axle to fit through a straw.	To know that sewing fabric together will make the join last for a long time.	To be able to thread a needle with supervision.	To know bread is cooked in the oven and rises with yeast.	To be able to knead dough into a desired shape.	
To know automotive engineers design, build and test vehicles.	To be able to select appropriate materials for	To begin to recognise the key parts of the design	To be able to use a running stitch.	To know dough is made up of flour, water, yeast and salt.	To be able to measure and mix ingredients with adult supervision.	
To begin to recognise the key parts of the design process (design, make and evaluate).	decoration. To be able to follow a simple iterative process.	process (design, make and evaluate).	To be able to use an over stitch to join fabric. To be able to use simple written evaluation	To begin to recognise the key parts of the design process (design, make and evaluate).	To be able to use simple written evaluation against a design criteria.	
process (design, make and evaluate).	To be able to use simple written evaluation		against a design criteria.	To know sushi is a traditional Japanese dish.	To be able to measure and weigh ingredients	
0	against a design criteria.			To know the claw grip and bridge hold techniques keep fingers out of the way of a	using non-standard measures (handful). To be able to start to follow a recipe.	
0			4	knife.	To be able to start to follow a recipe. To be able to prepare food hygienically.	
				To know instructions need to be followed in order.	To be able to cut, peel and grate vegetables with adult supervision.	
					To be able to use simple written evaluation against a design criteria.	
Enquiry/question/outcome/activity To build a model fire truck that could transport water.		Enquiry/question/outcome/activity To design and make a glove puppet linked to the book 'The True Story of the Three Little Pigs'.		Enquiry/question/outcome/activity To design and make a bread product that can be sold in Thomas Farynor's bakery. To prepare and make sushi.		
Key vocabulary (tier 2)	Key vocabulary (tier 3)	Key vocabulary (tier 2)	Key vocabulary (tier 3)	Key vocabulary (tier 2)	Key vocabulary (tier 3)	
evaluate	axle holder	design	over stitch	appearance	bridge hold	
fire engine	chassis	evaluate	running stitch	attractive	claw grip	
hose	fixed axle	fabric	textiles	crunchy	hygiene	
material	free axle	hollow		evaluate	iterative	
wheel	friction	join		grate	knead	
	iterative	needle		ingredients	nori	
		puppet		knife	yeast	
		sew		loaf		
		staple		mix		
		stitch		peel		
		thread		recipes		
		- Cin Cuu		salty		
				smell		
				smeii		
				sweet		
				taste		
				texture		
					1	

Mechanical and electrical systems		Textiles Richmond Park DT WEEK FOCUS – SEWING APRONS		Food and cooking (Healthy and varied diet including cooking and nutrition) The Romans Food – healthy snack		Structures The Romans Shell structures (including computer-aided design)	
		To know aprons are useful to protect our clothing and can be personalised.	To be able to use running stitch to sew on a variety of decorations.	To know a healthy diet requires different amounts of each food group (carbohydrates, protein, fats and minerals.	To able to use a claw grip carefully and independently to cut vegetables.	To know computers can be used to design a product with software.	To be able to cut out packaging accurately and independently.
		To know aprons help to organise things.	To be able to thread a needle using a threader.	To know food must be prepared hygienically.	To be able to use a bridge hold grip carefully and independently to cut vegetables.	To know 2D (two-dimensional) shapes are flat, while 3D (three-dimensional) shapes are solid	To be able to generate, develop and model using computer aided design.
		To know aprons must be attractive and comfortable to wear.	To be able to sew on a button. To be able to cut lettering out of fabric using	To know a salad must be healthy, look appealing, have a mix of textures and be tasty.	To be able to test ingredients and evaluate different flavours and textures.	objects with length, breadth, and depth. To know containers need a lid and must securely	To be able to measure accurately using rulers and standard units of measure (cm).
		To know the key parts of the design process (design, make, evaluate).	scissors.	To know the key parts of the design process	To be able to use short written evaluation	hold their contents.	To be able to use short written evaluation
			To be able to use short written evaluation commenting on more than one aspect of the design criteria.	(design, make, evaluate).	commenting on more than one aspect of the design criteria.	To know the key parts of the design process (design, make, evaluate).	commenting on more than one aspect of the design criteria.
			design entertal.		To be able to name key parts of the design process (design, make, evaluate).		
			KITT	CH CH	Tomor Hills have		
		Enquiry/question/outcome/activity To design and make an apron. Children to sew o	n pocket and decorate.	Enquiry/question/outcome/activity To design and make a healthy snack.		Enquiry/question/outcome/activity To design and make packaging for the healthy sna	ck.
		Key vocabulary (tier 2) apron	Key vocabulary (tier 3) innovative	Key vocabulary (tier 2) chop	Key vocabulary (tier 3) bridge grip	Key vocabulary (tier 2) design	Key vocabulary (tier 3) cad (computer-aided design)
		cutting	iterative	cut	claw grip	evaluate	iterative
		design		design	iterative	make	prototype
		evaluate		evaluate	texture	package	software
		knot		grate		packaging	
		make		ingredients		three-dimensional	
		needles thread		make method		two dimensional	
		uncau					
				peel			

Mechanical and	Textiles		Food and cooking		Structures	
electrical systems						
	Space DT WEEK FOCUS — SEWING STARS		India Food – mango lassi		Taj Mahal building day	
	Key knowledge To know a bedroom decoration must fit the theme and be attractive. To know that a blanket stitch is most effective at joining fabric together to make the item more durable. To know different types of stitch can be used for a variety of decorative outcomes. To know the key parts of the design process and the awareness of the wider iterative process (problem, research, practical tasks). To know the design process is a cycle consisting of problem, research, design criteria, practical tasks, design ideas, final ideas, product making and evaluation.	Key skills To be able to thread and use needles independently. To be able to use running, cross, back and blanket stitches. To be able to cut felt designs accurately and independently. To be able to use clear and cohesive written evaluation which comments on multiple aspects of the design process with justifications relating back to the user. To be able to evaluate own product using an evaluation star. To be able to design a product using available materials.	Key knowledge To know lassi is a traditional Indian drink which combines fruit and yoghurt as its base ingredients. To know a lassi can be sweet or salty. To know lassi needs to look appealing, taste good and have a balance of spices. To know the key parts of the design process and the awareness of the wider iterative process (problem, research, practical tasks).	Key skills To be able to use claw and bridge hold techniques independently when cutting with a knife. To be able to use a knife to cut and slice a variety of fruits navigating fruits with stones (mangoes) carefully. To be able to follow a set of instructions and measure ingredients using scales and measuring jugs. To be able to work collaboratively with others. To be able to use clear and cohesive written evaluation which comments on multiple aspects of the design process with justifications relating back to the user. To be able to design make and evaluate a lassi.	Key knowledge To know that the Taj Mahal is one of the seven man-made wonders of the world. To know that the Taj Mahal has been designed with symmetrically. To know that triangles can be found in many buildings and other constructions. To know that triangles are very often used in the construction of bridges as they provide stability and help to distribute forces evenly across the bridge.	Key skills To be able to consider the similarities and differences between the structures of the sever man-made wonders of the world. To be able to appreciate and explain why these might be considered to be the most impressive structures in the world. To be able to create triangles from 3 sticks and elastic bands, ensuring that joins are secure and lengths are equal To be able to create tetrahedrons from four triangles. To be able to work collaboratively in teams of two, four and whole classes.
	Enquiry/question/outcome/activity To design and make a star to decorate a space themed bedroom.		Enquiry/question/outcome/activity To prepare and make a mango lassi (linked with an India theme).		Enquiry/question/outcome/activity What are the seven man-made wonders of the world? Why do you think these are the seven man-made wonders of the world? What makes them special? Build the Taj Mahal from bamboo sticks and elastic bands	
	Key vocabulary (tier 2) decoration design durable effective evaluation felt practical research sew textiles thread	Key vocabulary (tier 3) back stitch blanket stitch criteria cross stitch design stitch innovative iterative running stitch	Key vocabulary (tier 2) appealing balance bitter combine ingredients recipe sour spices spicy sweet traditional variety	Key vocabulary (tier 3) Alphonso mango bridge hold claw grip Kesar mango lassi	Key vocabulary (tier 2) arch construction structure symmetry tomb triangle	Key vocabulary (tier 3) dome minaret Mughal architecture tetrahedron