	Mechanical and ele	ectrical systems	Textiles		d and		Stru	ctures	
	Ho	mes		cooking		Autumn – Homes and pirates, plans and ventures			
							(FOCUS—I	MAKING A BEDROOM	
	Key knowledge To know that book front covers need to be attractive.	Key skills  To be able to cut character and item templates.				Key knowledge To know materials can join together.		Key skills  To be able to cut simple shapes	from paper or thin card.
	To know mechanisms (sliders) need to move smoothly.	To be able to use masking tape to hold a slider in place.				To know designs have different themes.		To be able to glue together mat	erials (paper, craft sticks, card).
	To know and have an awareness of the key design process steps (design, make, evaluate).	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	
	the state of the s	To be able to follow simple teacher instructions to create an end product.				To know free-standing structures stand on their own base.		To be able to measure by drawi	
	Otherws	To be able to begin to follow and design process.				To know and have an awareness of the key design process steps make, evaluate).	design,	To be able to begin to follow an	
		Evaluation Let's evaluate our front cover.				To know boats must be able to float.		criteria.	evaluation and written against design
	glum of Felix Manua	N. Mg front copy a jim and allocative □     Ansara pop out from the egg □     3. The metaneum, a while in leide modelly □				To know polystyrene, cotton reels and plastic lids all float.		To be able to saw wood with ad	ult supervision.
		I give myself a star for				To have an awareness of the key design process steps (design, m evaluate).	ke,	To be able to measure by drawi	
	Oth	My target is				To know where glue needs to be applied.		To be able to begin to follow an	interactive design process.  Il evaluation against design criteria.
								To be able to use a simple verbal	
Design and Technology	By harate.	*							,
Y1 Design an		*							
	Enquiry/question/outcome/activity To design and make a book cover with a working mechanism.					Enquiry/question/outcome/activity To design and make a bedroom for a Lego character. To design and make a pirate ship for a stranded Barnes Bear whi	n floats for	a minute.	
	Key vocabulary (tier 2)	Key vocabulary (tier 3)				Key vocabulary (tier 2)		Key vocabulary (tier 3)	al a sua
	attractive cut	slider				bed (bunk bed) materials carpet measure		buoyant design	glue gun iterative
	materials	template				cut object		disc	MDF
	stick					chair research		evaluate	polystyrene
						curtain sink		flexible	research
						design size		foil	waterproof
						fit soft		free standing	
						float theme hard wallpaper			
						join window			
						lamp wood			
						lights			

Mechanical and electrical systems		Тех	tiles	Food an	Structures		
					(Healthy and varied diet inc	luding cooking and nutrition)	
	Battles, burns and bandages Mechanisms (wheels and axles)		Myself and m	y surroundings	Autumn – Battles,	burns and bandages	
					Spring – Ja DT WEEK FOCUS		
E	Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge	Key skills	
	To know fire engines need to transport water.  To know an axle is a rod which allows a wheel to	To be able to use PVA glue to join a variety of materials including card and egg boxes.	To know a glove puppet has a soft, hollow body so that you can put your hand inside and move its head and arms with your fingers.	To be able to develop our sewing skills by making puppets.	To know bread has different flavours and textures because of its ingredients.	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.	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	decoration.	process (design, make and evaluate).	To be able to use an over stitch to join fabric.	To begin to recognise the key parts of the design	To be able to use simple written evaluation	
	process (design, make and evaluate).	To be able to follow a simple iterative process.		To be able to use simple written evaluation against a design criteria.	process (design, make and evaluate).	against a design criteria.	
		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 using non-standard measures (handful).	
					To know the claw grip and bridge hold techniques keep fingers out of the way of a knife.	To be able to start to follow a recipe.	
					To know instructions need to be followed in	To be able to prepare food hygienically.	
gy	Canada Cara Cara Cara Cara Cara Cara Cara C				order.	To be able to cut, peel and grate vegetables with adult supervision.	
and Technology						To be able to use simple written evaluation against a design criteria.	
Y2 Design							
	Enquiry/question/outcome/activity To build a model fire truck that could transport wa	ter.	Enquiry/question/outcome/activity To design and make a glove puppet linked to the b	ook 'The True Story of the Three Little Pigs'.	Enquiry/question/outcome/activity To design and make a bread product that can be so To prepare and make sushi.	old in Thomas Farynor's bakery.	
-	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 hose	chassis fixed axle	evaluate fabric	running stitch textiles	attractive crunchy	claw grip hygiene	
	material	free axle	hollow		evaluate	iterative	
	wheel	friction	join		grate	knead	
		iterative	needle		ingredients knife	nori	
			puppet sew		loaf	yeast	
			staple		mix		
			stitch		peel		
			thread		recipes		
					salty smell		
					sushi		
					sweet		
					taste		
		İ	1	Ī.	texture	1	

	Mechanical Textiles and electrical systems  Richmond Park DT WEEK FOCUS - SEWING APRONS		extiles		nd cooking Cluding cooking and nutrition)	The Romans Shell structures (including computer-aided design)		
			Richmond Park DT WEEK FOCUS – SEWING APRONS		I			
			Key knowledge	Key skills	Key knowledge	Key skills	Key knowledge Key skills	
Y3 Design and Technology			To know aprons are useful to protect our clothing and can be personalised.  To know aprons help to organise things.  To know aprons must be attractive and comfortable to wear.  To know the key parts of the design process (design, make, evaluate).	To be able to use running stitch to sew on a variety of decorations.  To be able to thread a needle using a threader.  To be able to sew on a button.  To be able to cut lettering out of fabric using scissors.  To be able to use short written evaluation commenting on more than one aspect of the design criteria.	To know a healthy diet requires different amounts of each food group (carbohydrates, protein, fats and minerals.  To know food must be prepared hygienically.  To know a salad must be healthy, look appealing, have a mix of textures and be tasty.  To know the key parts of the design process (design, make, evaluate).	To able to use a claw grip carefully and independently to cut vegetables.  To be able to use a bridge hold grip carefully and independently to cut vegetables.  To be able to test ingredients and evaluate different flavours and textures.  To be able to use short written evaluation commenting on more than one aspect of the design criteria.  To be able to name key parts of the design process (design, make, evaluate).	To know computers can be used to design a product with software.  To know 2D (two-dimensional) shapes are flat, while 3D (three-dimensional) shapes are solid objects with length, breadth, and depth.  To know containers need a lid and must securely hold their contents.  To know the key parts of the design process (design, make, evaluate).	To be able to cut out packaging accurately and independently.  To be able to generate, develop and model using computer aided design.  To be able to measure accurately using rulers and standard units of measure (cm).  To be able to use short written evaluation commenting on more than one aspect of the design criteria.
			Enquiry/question/outcome/activity To design and make an apron. Children to sew o  Key vocabulary (tier 2) apron cutting design evaluate knot make needles thread	n pocket and decorate.  Key vocabulary (tier 3) innovative iterative	Enquiry/question/outcome/activity To design and make a healthy snack.  Key vocabulary (tier 2) chop cut design evaluate grate ingredients make method peel recipe	Key vocabulary (tier 3) bridge grip claw grip iterative texture	Enquiry/question/outcome/activity To design and make packaging for the healthy sna  Key vocabulary (tier 2) design evaluate make package package packaging three-dimensional two dimensional	ck.  Key vocabulary (tier 3) cad (computer-aided design) iterative prototype software

	Mechanical and	Space DT WEEK FOCUS – SEWING STARS		Food and	d cooking	Structures		
	electrical systems							
					idia nango lassi	Taj Mahal building day		
Y5 Design and Technology		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 seven 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	

Mechanical and elect	trical systems	Textiles	Food ar	nd cooking	Structures
	Dangerous Earth DT WEEK-MAKING CAM TOYS		Ancient Egyptians		
To know offset cams can provide rotary and up and down movements including eccentric cams, drop/snail cams, pear cams.  To know cams turn rotational movement into linear movement.  To know the 8 steps of the design process and how to apply them to the desired outcome.	Key skills  To be able to measure, cut and glue accurately and independently using standard units.  To be able to choose an appropriate (best fit) cam.  To be able to measure and saw dowel safely and independently.  To be able to use a glue gun independently to secure cams and rods.  To be able to work collaboratively in a pair.  To be able to create a clear and comprehensive written evaluation which comments on multiple aspects of the design process with justifications relating back to the user.		Key knowledge To know the available foods in Ancient Egyptian times.  To know that avocado, yogurt, sour cream and tomatoes sensible base ingredients for a dip.  To know the 8 steps of the design process and how to apply them to the desired outcome.	Key skills  To be able to use claw and bridge hold grip independently and efficiently when using knives.  To be able to measure ingredients accurately using standard units.  To be able to use a variety of utensils such as graters, chopping boards, mixing bowls, and juicers safely and effectively.  To be able to prepare food hygienically.  To be able to create a clear and comprehensive written evaluation, which comments on multiple aspects of the design process with justifications relating back to the user.	
cost effective a	Key vocabulary (tier 3) aesthetically pleasing		Enquiry/question/outcome/activity To design, prepare and make a dip that would be suitable for and Key vocabulary (tier 2) avocado	Key vocabulary (tier 3) aioli	
follower interactive i materials I mechanical i movement slider	cams (drop, pear, eccentric) crank iterative linear movement mechanism push rod shaft tech card		balanced chop chopping board colander core cut dice grate juice juicer mix nutrition outer leaf peel slice stir	guacamole salsa serrated edged knife sour cream and chive taramasalata zest	