Design & Technology Long term plan

All of these elements must be appropriately embedded into each DT unit (age appropriate)- Design Brief

<mark>Design</mark>

(KS1) design purposeful, functional, appealing products/ generate, develop, model and communicate their ideas

(KS2) research and develop design criteria to inform the design of innovative, functional, appealing products/generate, develop, model and communicate their ideas, e.g. cross-sectional and exploded diagrams

Make – Use a range of tools for cutting, shaping, joining and finishing.

(KS1) select from and use a wide range of materials and components according to their characteristics

(KS2) select from and use a wider range of materials and components according to their functional properties and aesthetic qualities

Evaluate

(KS1) explore and evaluate a range of existing products and their ideas and products against design criteria

(KS2) 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

(KS1) build structures, exploring how they can be made stronger, stiffer and more stable/ explore and use mechanisms, e.g. levers, sliders, wheels and axles (KS2) strengthen, stiffen and reinforce more complex structures/ mechanical systems, e.g. gears, pulleys, cams, levers and linkages/ electrical systems, e.g. series circuits incorporating switches, bulbs, buzzers and motors/ computing to program, monitor and control their products

DT	AU1	AU2	SP1	SP2	SU1	SU2
Nursery	Name of unit: All about me	Name of unit: Stories	Name of unit: Transport	Name of unit: Amazing animals	Name of unit: Seaside	Name of unit: Minibeasts
			Vocabulary: scissors,		Vocabulary: materials,	Vocabulary: small world,
			hold, grip, snips	Vocabulary: scissors,	hard, soft, bumpy, shiny,	build, city, buildings, park
				hold, grip, snips	rough, same, different	
			Key Knowledge:			Key Knowledge:
			*Can hold the scissors	Key Knowledge:	Key Knowledge:	*Can use equipment to
			correctly	*Can hold the scissors	*Knows that some	build familiar places e.g.
			*Can keep their thumb on	correctly	materials feel different,	parks, homes, etc
			the top	*Can keep their thumb on	and some feel the same	
			*Can make small snips	the top	*Can use some key words	
				*Can make small snips	to describe the materials	
			Vocabulary: make it,			
			materials, resources,			
			ideas			
			Key Knowledge			
			Can say what they are			
			going to make			

			*Can point to or name the materials they will need *Can say how they will use the materials *Can complete their planned idea Vocabulary: materials, join, fix, stick Key Knowledge *Knows that 2 materials can be joined together *Knows that glue, Sellotape, split pins etccan be used to join materials together *Knows that the 2 materials have to be joined securely		
Reception	Name of unit: colours Vocabulary: Scissors, snip, cut, grip join, materials, Key Knowledge: *Knows how to hold scissors correctly *Can make snips with scissors *Explores joining materials together (glue, masking tape, Sellotape, split pins, string)	Name of unit: Superheroes Vocabulary: Scissors, snip, cut, grip join, materials, Key Knowledge: *Knows how to hold scissors correctly *Can make snips with scissors *Explores joining materials together (glue, masking tape, Sellotape, split pins, string) Vocabulary: Attach, snip, stick, join	Name of unit: Dinosaurs Vocabulary: Scissors, equipment, purpose, safely, store, carrying Key Knowledge: *Can hold scissors and other equipment correctly *Can use scissors and other equipment for the right purpose *Can store scissors and other equipment safely *Can move around the classroom safely carrying	Name of unit: Under the Sea Vocabulary: Scissors, cut, grip, control outline, join, materials Key Knowledge: *Consistently holds scissors correctly *Can cut around a simple outline with good control *Join materials together successfully (glue, masking tape, Sellotape, split pins, string)	

		Key Knowledge: *How to join materials together *How to adapt cardboard boxes to form superhero vehicles	scissors and other equipment		
Year 1	Name of unit: Ourselves – Food - Smoothies ProjectDesign Brief: Patsy is making a new selection of smoothies for the dinner menu. She wants to know what smoothies the Year 1 children want. You need to research flavour and texture to design and make an example of what you like. Research, design, plan, make and evaluate your product.Vocabulary: Fruit, Vegetables, Nutrients, utensils, cut, peel, slice, grate, sweet, sour, spicy, texture - soft or hard, mushy or 		Name of unit: Food – garlic bread (growing) (Revisiting and applying- additional skill of decorating using herbs/cheese) Vocabulary: carbohydrates, fruits and vegetables, protein, dairy, fats Key Knowledge: *Know how to make food look appealing *Know where food comes from such as animals or plants *Know that food has to be farmed, grown or caught		Name of unit: Transport-Image: Second
	vocabulary to describe the				*Know how they want to construct their product

	flavour and texture of foods *Why they need to wash their hands and make sure that surfaces are clean *To know how to follow a simple recipe *How to weigh ingredients using measuring cups *To know which foods make healthier choices			*Know the appropriate resources and tools for their building projects *Know how to make simple plans before making objects, e.g. drawings, arranging pieces of construction before building *Know how to add decorative design for a product *Know how to choose suitable materials for their project *Know how to improve their product
Year 2		Name of unit: Great Fire	Name of unit: Food	Name of unit: Seaside –
		of London – Fire Engine project	Technology (Revisiting and applying – baking bread)	Glove puppets
		project		Design Brief:
		Design brief:	Vocabulary:	You will be putting on a
		King Charles has sent an	Knead, prove, bake, rise	puppet show to the year 1
		order to the people to		children about caring for
		create a Fire engine to put	Key Knowledge:	the environment. Your
		out the fire!		puppet must fit your hand
		Your fire engine must	*Why they need to wash	inside, have an applique
		have a strong structure	their hands and make sure	decoration and be made
		and it must have moving	that surfaces are clean	from suitable materials.
		wheels. Research, design,	*To know how to follow a	Research, design, plan,
		plan, make and evaluate	simple recipe	make and evaluate your
		your product.	*Know how to weigh	product.
		Vocabulary:	ingredients using measuring cups	Vocabulary:
		mechanism, chassis, axle,	measuring caps	Glove puppet - a glove
		dowel freestanding		puppet fits over the hand,
		structure, frame structure,		and the fingers operate
		shell structure		its head and arms,
				applique - a cut out
		Key Knowledge:		decoration fastened to a
				larger piece of material
				seam, sew, template,

	 *To know about different types of mechanisms and use one in their product *Know how to make part of their product move *To know how to make structures that are stronger, stiffer and more stable. *To know why they have chosen to make specific parts move *To know how to develop their own ideas, using a brief as a starting point *Know how to properly join materials together as part of a moving product 		 mock-up, weaving, texture- rough, smooth, coarse, fine, soft, stiff, opaque, sheer Key Knowledge: *Know how to cut materials using scissors *Know how to describe the materials using different keywords *To know the process of weaving using paper. To know how to confidently thread a needle. *Know how to cut out a simple template shape from felt. *Know how to decorate with beads, sequins, braids and ribbons.
Year 3	Name of unit: Romans – Roman Clothing ProjectDesign Brief: Spartacus (Doll) the gladiator needs a new outfit to visit Emperor Claudius. You need to design him a decorative tunic to impress the Emperor. It must include a range of different fabrics, joined together and must include stitched applique decorations. You must also create a thread belt. Research, design, plan,	Name of unit: Volcanoes – making a Volcanic cupcake ProjectDesign Brief: You need to design 	

		make and evaluate your			
		product.		Vocabulary:	
				Mashing, whisking,	
		Vocabulary:		crushing, grating, cutting,	
		running stitch,		kneading, baking, texture	
		oversewing, back stitch,		– flavoursome, tangy,	
		blanket stitch		appetising	
		Key Knowledge:		Key Knowledge:	
		*Know how to use simple		*Know how to use a range	
		patterns as a template, to		of techniques such as	
		cut different fabrics.		mashing, whisking,	
		*How to confidently		crushing, grating, cutting,	
		thread a needle using a		kneading and baking	
		smaller eye		*How to prepare	
		*How to join fabrics and		ingredients using	
		applique decorations		appropriate cooking	
		using running stitch, over		utensils	
		sewing, backstitch and		*How to measure and	
		blanket stitch		weigh ingredients to the	
				nearest gram	
		*Know how to use			
		weaving with threads to		<mark>Science link -</mark> explain that	
		knot, plait and twist.		a healthy diet is made up	
				of a variety and balance of	
				different food and drink,	
				as represented in the	
				Eatwell Guide and be able	
				to apply these principles	
				when planning and	
				cooking dishes	
				Science link - understand	
				that to be active and healthy, nutritious food	
				and drink are needed to	
				provide energy for the	
				body	
Year 4			Name of unit: Raging	Name of unit: Vikings –	Name of unit: Lighthouses
			Rivers Project- Riverside	Viking long-boats	(Science linked)
			soup	0 - 0	Application of skills
			r	Design Brief:	11
			Design Brief:	Ulf, the Viking, wants to	Vocabulary: circuit, input,
				get across the sea to	process, output
L				Ber der 035 the Sed to	process, output

		Mr. Aldred is gaing an a	nillaga a naarbu	
		Mr Aldred is going on a	pillage a nearby	Key Keendedee
		fishing trip this weekend.	settlement. His boat must	Key Knowledge:
		He will be camping by the	be able to carry him and	*Know how to use
		river and will need to feed	10 other warriors. It	electrical components
		himself. Using ingredients	should be able to float on	*Know that electrical
		that can be foraged from	the water and it needs to	systems have an input,
		around a river, design a	have some form of	process and output
		delicious soup for Mr	mechanism to help Ulf	
		Aldred to make for his	and his warriors to row	Science link - use the
		dinner! Research, design,	the boat. Research,	science through stories to
		plan, make and evaluate	design, plan, make and	link the lighthouse
		your product.	evaluate your product.	keeper's son to electricity.
				As part of this Science topic, design, plan, make
		Vocabulary: Forage, boil,	Vocabulary:	and evaluate a model
		reduce, sauté, simmer,	Appropriate, functional	lighthouse to demonstrate
		stock, broth,	properties-	the ability to use electrical
		aromatics-garlic, onions,	-absorbent, waterproof,	components as part of a
		leeks, carrots, celery	buoyant, lightweight,	project.
		chop- bridge technique,	dense, durable	
		claw technique	aesthetic qualities	
			-smooth, polished, grainy,	
			-smooth, polished, grainy,	
		Key Knowledge:	flexible,	
		Key Knowledge: *To know how to prepare		
		*To know how to prepare	flexible,	
		*To know how to prepare a range of ingredients	flexible, Key Knowledge:	
		*To know how to prepare a range of ingredients using correct utensils	flexible, Key Knowledge: *To know how to choose	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and	flexible, Key Knowledge: *To know how to choose appropriate tools	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure,	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes,	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes, safely and hygienically	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and score objects accurately	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes, safely and hygienically *To know how to use a	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and score objects accurately *Know how to use cams,	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes, safely and hygienically *To know how to use a heat source and how to	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and score objects accurately *Know how to use cams, gears, and pulleys to	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes, safely and hygienically *To know how to use a heat source and how to control the temperature *To know how to follow a	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and score objects accurately *Know how to use cams, gears, and pulleys to create movement *Know how to select an	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes, safely and hygienically *To know how to use a heat source and how to control the temperature *To know how to follow a recipe, more	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and score objects accurately *Know how to use cams, gears, and pulleys to create movement	
		*To know how to prepare a range of ingredients using correct utensils *Know how to weigh and measure ingredients to the nearest gram *To know which ingredients are grown locally in the UK *To know how to prepare and cook savoury dishes, safely and hygienically *To know how to use a heat source and how to control the temperature *To know how to follow a	flexible, Key Knowledge: *To know how to choose appropriate tools *Know how to select appropriate materials for their functional properties and their aesthetic qualities *Know how to measure, mark, cut, shape and score objects accurately *Know how to use cams, gears, and pulleys to create movement *Know how to select an appropriate joining	

Year 5	Name of unit: Egyptians-		Name of unit: Tudors-
	Irrigation System		Tudor Coin purse
	Design Brief:		Design Brief:
	An Egyptian farmer needs		King Henry VIII wants to
	a new irrigation system to		give a gift of a decorative
	get water from the river		coin purse to his wife. It
	Nile onto his crops.		must be able to hold lots
	Research, design, plan,		of coins safely and must
	refine, make and evaluate		be decorated lavishly with
	a mechanism -based		reference to the Tudor
	irrigation system on an A-		rose. Research, design,
	frame with a solid base.		plan, create and evaluate
	Your design must include		your product.
	a specific permanent join.		
			Vocabulary: oversewing,
	Vocabulary:		backstitch, pattern
			layout, seam, seam
	Rotary motion:		allowance, aesthetics
	movement that goes		
	round		Key Knowledge:
	Oscillating motion:		*Know how to use a
	moving to and fro around		pattern layout to cut a
	a pivot point, as in a lever		range of fabrics
	Reciprocating motion:		*To know which needle to
	backwards and forwards		use for different threads
	movement in a		*Know how to use
	straight line, on a slider		different stitches to join
	Cam:		fabrics
	Follower: the device that		*Know how to decorate
	follows the movement of		using applique, beads and
	the cam – a		sequins
	lever or a slider		
	Lever: a piece of rigid		
	material that moves to		
	and fro around a pivot		
	point creating oscillating		
	motion.		
	Key Knowledge:		

	*To know how to make		
	modifications throughout		
	a project		
	*Know how to select an		
	appropriate permanent		
	joining method		
	*To know how to make		
	high quality, finished		
	products		
	*Know how to create a		
	cross-sectional diagram		
	*Know how to use a range		
	of tools and equipment		
Year 6	Name of unit: Science	Name of unit: Ancient	
	linked electricity project –	Greek – The great Greek	
	Christmas game	feast	
	childring Barrie		
	No olo	Design Brief:	
	203	You need to research,	
		design, plan, make, refine	
		and evaluate a 3-course	
		meal including a starter,	
	Design Brief:	main and a dessert for a	
	Steady Hand Game	celebration feast in	
	(Electrical Systems)	honour of the Greek Gods.	
		Your meal must be	
	You need to research,	inspired by the traditional	
	design, plan, make and	ingredients of Ancient	
	refine a Christmas themed	Greece but can have a	
	steady hand game to sell	modern twist.	
	to primary-aged children.		
	The base will need to be	Vocabulary:	
	secure with neat edges.	Seasonality, grown,	
	Create an operational	reared, caught, processed,	
	electrical circuit with a	substances, seasonality,	
	buzzer that completes the	adapt, timings,	
	circuit when the handle	temperatures cooking	
	makes contact with the	-grilling, griddling, frying,	
	wire.	boiling	
	Vocabulary:	Key Knowledge:	

Buzzer, copper wire,	*Know how to measure
circuit, net, electricity,	ingredients to the nearest
stable, tabs, assemble	gram and millimetre
	*To know how seasonality
Key Knowledge:	effects food availability
*Know how key events	*Know where and how a
and individuals in design	variety of ingredients are
and technology have	grown, reared, caught, or
helped shape the world	processed
*How to use market	*Know how wheat is
research to develop a	processed into flour, and
design specification for a	that other foods are also
functional product	processed into ingredients
*Know how to show ideas	*To know how to prepare
through annotated	and cook a variety of
sketches of electrical	predominantly savoury
circuits or circuit diagrams	dishes
* How to evaluate and	*To know how to safely
improve their ideas and	use a heat source for
products against design	grilling, griddling, frying
criteria and considering	and boiling
the views of others	*To know what
*Know how to use	substances in food, make
electrical systems in their	a healthy diet
products	*To know how to balance
	substances in food when
	planning and preparing
	meals
	*Know how to adapt a
	recipe by using ratios or
	scaling up
	*Know how to adapt a
	recipe by altering cooking
	time and temperatures
	*Know how to adapt and
	refine recipes by
	substituting one or more
	ingredient.
SEND – > Adjust the level of challenge	
Adaptive > Targeted support from a TA	
Teaching	

	\checkmark	Clarify/simplify a task or provide numbered steps with visual representations eg-have step by step pictures on how to complete the activity. As well as
		teacher modelling of the activity.
	\triangleright	Provide worked (completed) and partially completed examples.
	\triangleright	Highlight essential content
	\triangleright	Re-explain a concept or explain it in a different way
	\triangleright	Give additional (or revisit) examples
	\triangleright	Use peer tutoring/collaborative learning (everyone must participate – give them roles)
	\triangleright	Provide additional scaffolds <i>always provide lots of visual images</i>
	\triangleright	Set clear targets/expectations
	\triangleright	Provide prompts/sentence stems- for their evaluations children will be provided with a word bank/ list of statements to support them to talk/write
		about their work. These will include what they like about their outcome as well as ways in which they could improve it.
	\triangleright	Improve accessibility (e.g. proximity to speaker, visibility of whiteboard, read a text to the pupil)
		Consider pace - (extra time for responses to questions, contributing to class discussions and to complete activities)
		Provide vocabulary with visual images- have slides on the computer with key vocabulary so children can refer to these when completing their work.
		check understanding and reinforcing as needed through repetition, rephrasing, explaining and demonstration
	\triangleright	Have alternative ways to record learning, e.g. evaluations can be completed using multiple choice questions or verbally answer questions for the
		teacher to scribe; the use of recording devices
		Pre-teach vocabulary, key content etc.
		Provide one to one support where possible and do small demonstrations during each stage of the topic.
		Break the task up into smaller sections
Strategies	\triangleright	Identify and account for prior knowledge – a child who has extensive prior knowledge could be asked to present some of the knowledge they have to
to stretch		the class; explain something they understand easily to a child who doesn't 'get it' so quickly
and	\triangleright	Build on interests to extend – allow children to research using laptops/ magazines to do their market research for the product they are about to make;
challenge		set tasks/question to investigate during home learning time
	\triangleright	Depth of content - consider what you can add to create depth, e.g. digging into an area more deeply, going laterally with a concept, or asking pupils to
		use more complex terminology to describe abstract ideas
		use more complex terminology to describe abstract ideas Use questioning techniques to boost thinking –throughout the task ask children open ended questions which will get them to think deeper into the
		use more complex terminology to describe abstract ideas Use questioning techniques to boost thinking -throughout the task ask children open ended questions which will get them to think deeper into the reasons why certain materials have been chosen. For Example, when cooking you could ask what else could make your dish sweet without adding
	٨	use more complex terminology to describe abstract ideas Use questioning techniques to boost thinking –throughout the task ask children open ended questions which will get them to think deeper into the reasons why certain materials have been chosen. For Example, when cooking you could ask what else could make your dish sweet without adding sugar?
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	AAAA	 use more complex terminology to describe abstract ideas Use questioning techniques to boost thinking –throughout the task ask children open ended questions which will get them to think deeper into the reasons why certain materials have been chosen. For Example, when cooking you could ask what else could make your dish sweet without adding sugar? Consider learner roles – ensure they are appropriately challenged through the role they are given so they can make an effective contribution; argue in favour of a viewpoint that is different to their own, e.g. argue the opposite position to that which they actually hold, during a class debate Mastery - more intensive teaching, tutoring, peer-assisted learning, small group discussions where children are given the opportunity to lead the activity Differentiated success criteria/choice of task – offer a choice of tasks with a different level of challenge, e.g. give children additional criteria to the original design brief, e.g. Y4 making soup – children have to consider ingredients for somebody who has a specific dietary requirement such as celiac; Y5 Shadufs – children might be given a set volume of water to transport etc.