



SUBJECT: DESIGN & TECHNOLOGY

INTENT

Our DT curriculum will develop imaginative thinking in children to enable them to talk about what they like and to solve problems when designing and making. It will enable children to talk about how things work, and to draw and model their ideas as well as evaluate their own and existing products. Throughout this curriculum children will be encouraged to select appropriate tools and techniques for making a product, whilst following safe procedures.

		l	•	wing safe procedu			
AUTUMN	EYFS	KEY STA	IGE ONE		KEY SIA	GE TWO	
	YEAR R	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
KNOWLEDGE	Fire Engine	3 Little Pigs	Fresh Fruit Salad	Sea Monster	Roman Catapult	Pop Up Christmas	Motorised Car
	Junk Modelling.	House	Cooking and	Pneumatic	Wood Work.	Card	Wood Work and
	Children to know	Wood and Art	Nutrition	Systems.	Technical	Card Craft.	Electrical Circuits.
	fire engines have	Craft Modelling.	Where different	Technical	Knowledge	Technical	Carl Benz and the
	a specific purpose.	Technical	fruit comes from.	Knowledge	Apply their	Knowledge	invention of the
	Children to learn	Knowledge	Use the principles	Understand how	understanding of	Understand and	automobile in
	the different	Explore making	of a healthy and	air pressure can	how to	use mechanical	1886 and how it
	parts of a fire	the frames more	varied diet to	be used as a	strengthen,	systems in a	has helped shape
	engine.	stable, e.g. by	make a fresh fruit	mechanical system	stiffen and	Christmas card –	the world.
	Textiles.	adding further	salad. Knowledge	in their product	reinforce more	levers and	Technical
	Technical	parts, by having a	of food hygiene	to create	complex	linkages.	Knowledge
	Knowledge	wider base or by	and safe	movement.	structures to		Confidently apply
	Weaving.	constructing walls	preparation.	Techniques for	ensure their base		their
		in different	Tasting a variety	making simple	can withhold the		understanding of
		configurations.	of different	pneumatic	mechanical		how to strengthen
			fruits and	systems.	system.		stiffen and

		Build a frame for	understanding	Textiles.	Understand and		reinforce a
		a house and begin	where it has come	Technical	use the		wooden frame for
		to explore how	from / grown.	Knowledge	mechanical system		a car. Use
		they can be made		Running, cross and	of stored energy		mechanical
		stronger, stiffer		back stitch.	to propel the		systems to enable
		and more stable.		Pinning to keep	projectile.		the car to move -
		Textiles.		material in place.	F J J		cams, axles and
		Technical					gears etc.
		Knowledge					Understand and
		Using a needle and					use electrical
		thread safely.					systems to enable
		, Running stitch and					, the car to move.
		cross stitch.					Textiles.
							Technical
							Knowledge
							How to select and
							use material and
							thread for
							purpose
							independently.
SKILLS	Design	Design	Design	Design	Design	Design	Design
	Develop their	Generate ideas	Taste a variety of	Generate, develop,	Use research and	Research using a	Generate, develop
	design ideas	and communicate	fresh fruit to	model and	develop design	collection of	and model ideas
	through small	their ideas	decide which	communicate their	criteria to inform	greetings cards	through discussion
	group discussion.	through talking in	combination they	ideas through	the design of a	with pop-up and	and drawing.
	Make	a small group and	want to include in	discussion and	functional	moving parts for	Design against
	Begin to assemble,	drawing. Design a	their fruit salad.	annotated	catapult that uses	children to	their design
	join and combine	purposeful,	Make	sketches.	stored energy to	investigate and	criteria to make a
	materials in order	functional house	Use basic	Make	propel the	develop a design	working, moving
	to make a fire	based on the	principles of a	Select from and	projectile.	criteria. Sketch	vehicle.
	engine. Use a	design criteria	healthy and varied	use tools and	Make	and annotate	Make
	range of small	that will survive	diet to prepare	equipment to	Use the	design, creating	Select
	tools such as	the Big Bad Wolf.	the fruit salad.	create a working	appropriate tools	prototypes to	appropriate tools,
	scissors.	Make	Cutting, dicing,	pneumatic system.	to measure, cut,	check to confirm	materials,
	Evaluate	Assemble, join and	and slicing of food	Select from and	shape and join the	mechanism	components and
	Share their	combine 2D and	chosen.	use a wider range	wooden frame and	desired.	techniques. Use
	creations	3D materials into	Evaluate	of materials and	catapult. Follow	Make	tools safely and

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explaining the	a model.	Describe the	components	instructions in	Confidently	accurately to
process they have	Select from and	ingredients used	according to their	order to build	measure, mark	construct a
used.	use a range of	in fruit salad and	aesthetic	catapult. Measure	out, cut and shape	frame.
Textiles	tools and	whether they	qualities.	wood accurately	a range of	Strengthen and
Paper weaving to	equipment to	believe the	Evaluate	and cut to desired	materials using	reinforce joins as
develop fine	perform practical	combination of	Evaluate their	lengths. Join wood	appropriate tools,	they see
motor skills and	tasks such as a	tastes worked.	ideas and	together and	equipment and	appropriate.
follow a pattern.	saw to cut wood.		products against	strengthen and	techniques.	Construct a
	Measure with		their own design	reinforce as	Join and combine	working circuit to
	support and cut		criteria and	appropriate.	materials and	enable the axle to
	wood safely and		consider the views	Create axles for	components	move.
	correctly to build		of others to	firing arm.	accurately in	Evaluate
	inner structure of		improve their	Assemble, join and	temporary and	Investigate and
	house. Investigate		work. Compare the	combine different	permanent ways.	analyse a range of
	and develop		effectiveness of	materials in order	Evaluate	existing products
	techniques for		different	for arm to work	Investigate and	through the ages.
	making the		systems. Use	effectively.	analyse a range of	Evaluate their
	structure		appropriate	Evaluate	existing products	work according to
	stronger, stiffer		vocabulary to	Understand how	products.	design criteria
	and more stable.		describe how	the Romans'	Evaluate their	and suggest
	Evaluate		things work.	designs and	ideas and product	improvements.
	Evaluate their		Textiles	technologies have	against their own	Understand how
	ideas and		Work with	helped shape the	design criteria	key individuals in
	products against		hessian, material	world. Investigate	and consider the	the invention of
	the design		strips and thread	and analyse a	views of others to	the automobile
	criteria.		to sew a water	range of existing	improve their	have helped
	Textiles		word drape using	products in	work.	shaped the world
	Safely use a		running, cross and	various periods of		of travel.
	needle and thread		back stitch	time. Evaluate		Textiles
	to create a			their products		Work safely and
	picture of a house			against Roman		independently and
	on binca using			catapults.		to use previous
	running stitch and					taught sewing
	cross stitch with					skills to sew a
	support.					Victorian sampler
						using a needle,
						binca and thread

			and demonstrating
			a variety of
			different
			stitches.

SPRING	EYFS	KEY STA	GE ONE		KEY STA	GE TWO	
	YEAR R	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6
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KNOWLEDGE	Sweet House	Bi-Plane	Icarus Scene	Minotaur maze	Vegetable Spring	Textile Disc	Pizza
	Cooking and	Wood Work.	Model	Wood Work.	Rolls.	Textile.	Cooking and
	Nutrition.	Technical	Wood Work and	Technical	Cooking and	Technical	Nutrition
	Knowledge of	Knowledge	Craft Skills.	Knowledge	Nutrition.	Knowledge	Technical
	what makes	Explore and use	Technical	Use accurate	Technical	Understand how	Knowledge
	shortbread.	mechanisms such	Knowledge	design to	Knowledge	to join textile and	Understand and
	Knowledge of food	as wheels and	Build a strong,	measure, cut and	Understand and	other mediums to	apply the
	hygiene and safe	axles in their bi-	stiff and stable	assemble a	apply the	a self-dyed disc	principles of a
	preparation.	plane. Build the	structure using	working maze	principles of a	to create a motif	healthy and varied
		bi-plane exploring	knowledge of how	using wood.	healthy and varied	using a range of	diet when
		how they can be	to make a	Attaching wood to	diet. Knowledge of	stitches.	designing their
		made stronger	strengthened	maze plate and	what makes a		pizza. Prepare and
		and more stable.	structure.	how to stiffen the	vegetarian spring		cook a pizza
			Techniques for	structure if	roll. Knowledge of		design by
			holding axles to	needed. Accurate	food hygiene and		themselves.
			enable them to	measuring using a	safe preparation.		Understand
			turn. Understand	design.	Knowledge of		seasonality and
			the need for a	Greek Salad	where different		know where and
			stable structure	Cooking and	foods come from.		how a variety of
			to support the	Nutrition	Know where and		ingredients are
			mechanism.	Technical	how certain		grown, reared,
			Textiles.	Knowledge	ingredients are		caught and
			Technical	Understand and	grown.		processed.
			Knowledge	apply the	Understand how		Understand the
			Recap running	principles of a	ingredients come		origins of pizza

		stitch. How to add sequins use thread.	healthy and varied diet. Prepare ingredients to create a Greek Salad. Understand seasonality and know where and how a variety of ingredients are grown.	together to create a dish. Understand why an egg wash is used.		and how the Italians have influenced the Western world with their food culture. Understand the process of proving.
ingredients. Children make shortbread in a small group. Use a range of small tools including cooking equipment. Ensuring good food hygiene preparation.	Select from and use a range of tools and equipment to join and finish. Evaluate Explore and evaluate a range of existing planes. Evaluate their ideas and products.	Design a purposeful, appealing product that anyone could use based on a design criteria. Communicate and model ideas through talking and creating mock-ups to explore effective mechanisms. Make Select tools and materials and use	Develop design criteria to inform the design of an innovative, functional and appealing products that is fit for purpose. Generate, develop and communicate ideas through discussion, annotated drawings showing accurate measurements and	Select and use appropriate knives to cut, slice and dice fruit and vegetables such as pepper, spring onion and lettuce. Use a grater to grate vegetables such as carrot. Use an egg wash and how to fold and fasten spring roll pastry appropriately. Evaluate	How to design a product using textiles for a specific purpose. To appreciate the aesthetic qualities of a design. Make Measure, cut, pin and sew fabric with accuracy using a variety of chosen stitches. Use simple decorative techniques	Design a pizza using authentic Italian ingredients. Develop a design criteria when creating authentic Italian food. Make Follow instructions to create a base, including kneading and stretching techniques. Cutting, slicing
		correct vocabulary to name them. Assemble, cut, join and combine materials to make a winding mechanism using an axle. Evaluate	placement. Make Use saws and vices to cut wood for their maze. Select appropriate bonding agent to join the maze together using	Taste their vegetable spring rolls and evaluate their product. Decide which ingredients, if any, they would add more/less if they were to make it again.	including dyeing and embroidery. Evaluate Evaluate their ideas and chosen techniques against their own design and how they can improve their work.	and dicing fresh fruit and vegetables and grating the cheese for toppings. Construction of pizza toppings including the sauce.

Explore	e and their detailed	Textiles	Evaluate
evaluate a	a range plans.	Use a sewing	Tasting pizzas to
of existir	ng toys Use knives to cut,	circle to create a	compare
that use c	an axle. slice and dice	sewn tabard using	appearance,
Evaluate	e their ingredients for a	felt and thread	flavour, texture
ideas and	Icarus Greek Salad.	and previous	and cost. Evaluate
model ag	gainst Prepare dressing	taught stitches	against a range of
their de	esign by combining	onto tie-dyed	existing products.
criter	ria. ingredients.	calico.	
Texti	iles Evaluate		
Use thick	thread Evaluate their		
and runnin	ng stitch ideas and mazes		
to add ray	ys on to against their own		
calico sun			
sequins on	to their and consider each		
design t	o add other's views to		
deta			
	work. Taste their		
	Greek Salad and		
	consider how they		
	can improve their		
	culinary skills.		

SUMMER	EYFS	KEY STAGE ONE		KEY STAGE TWO				
	YEAR R	YEAR 1	YEAR 2	YEAR 3	YEAR 4	YEAR 5	YEAR 6	
KNOWLEDGE	Giant Bug	Underwater	Great British	Dinosaur Diorama	Viking Long Ship	Weather Vane		
	Junk Modelling	Theatre	Food	Craft Modelling	Buoyant Modelling	Wood and Craft		
	Create a giant bug	Craft Modelling	Cooking and	Technical	Technical	Work		
	using junk and	Technical	Nutrition	Knowledge	Knowledge	Technical		
	craft materials	Knowledge	Use basic	Apply their	Apply their	Knowledge		
	with features of	Explore and use	principles of a	knowledge of how	knowledge and	Using their		
	bugs displayed.	mechanisms such	healthy and varied	to strengthen,	understanding of	knowledge of how		

	Attaching 2	as levers, sliders	diet to prepare	stiffen and	what makes	to strengthen,	
	materials	and winding	some traditional	reinforce a	something	stiffen and	
	together to	mechanism in	British dishes.	variety of	float/buoyant to	reinforce	
	create the	their theatre	Understand where	structures	create a buoyant	structures to	
	desired effect	scene. Build	food comes from.	included in their	Viking long ship.	create a weather	
	Textiles.	structure of a	Understand good	dinosaur scene.	Beetle Boy Back	vane. How to use a	
	Technical	theatre, exploring	food hygiene		Garden	protractor to	
	Knowledge	how they can be	principles.		Junk Modelling	measure angles	
	Attaching 2	made stronger,			Technical	when cutting	
	materials	stiffer and more			Knowledge	wood. Use wind	
	together to	stable.			Use knowledge of	power to create a	
	create the				strengthen,	mechanical system	
	desired effect				stiffen and	for their weather	
	using a stitch.				reinforce to join	vane.	
					'furniture' to the		
					back garden to		
					create a furniture		
					forest.		
					Textiles.		
					Bayeux tapestry		
					Technical		
					Knowledge		
					Recap running,		
					cross and back		
					stitch. Recap the		
					importance of		
					pinning.		
SKILLS	Design	Design	Make	Design	Design	Design	
ORILLO	Design a bug as a	Design a	Use a range of	Generate, develop,	Design a buoyant	Design a Sussex	
	small group	purposeful,	tools and	model and	Viking long ship	inspired weather	
	offering their own	functional,	equipment	communicate their	against the design	vane that is both	
	ideas. Children	appealing products	including knives,	ideas as a group	criteria to include	functional and	
	offer explanations	to entertain	folks, spoons and	through discussion	features of a	appealing.	
	for why things	others based on a	peelers to cut,	and annotated	Viking Long ship	Generate and	
	might happen with	design criteria of	chop, measure and	sketches. As a	as well as the	model ideas	
	certain materials	incorporating	mix ingredients to	group, design an	ability to	through discussion	
	and construction	• •	make a Great		•	and drawing. Plan	
	and construction	moving parts.	make a Great	appealing Dinosaur	move/stay afloat	and drawing. Pidh	

ideas.	Generate, develop	British dish. Peel	Diorama as a	on water.	main stages of	
Make	and communicate	and cut potatoes	group.	Generate, model	making.	
Use a range of	their ideas	to make chips in	Make	and communicate	Make	
small tools	through talking,	their fish and chip	Constructs with a	ideas through	Select	
including scissors.	drawing and	dish. Accurately	purpose in mind,	discussion,	appropriate tools,	
Safely use and	creating	measure and mix	using a wide range	drawing and	materials,	
explore a variety	templates with	ingredients to	of materials and	exploring	components and	
of materials, tools	support.	create soda	components.	materials. Use a	techniques to	
and techniques to	Make	bread, welsh	Select from and	list of furniture	create their	
create the	Select from and	cakes and short	use a wide range	and knowledge of	weather vane.	
desired effect.	use a range of	bread.	of tools and	materials on the	Evaluate	
Experiment with	tools and	Evaluate	equipment to cut,	table to discuss	To evaluate their	
colour, design,	equipment to cut,	Taste and	shape, join and	which furniture	work according to	
texture, form and	shape, join and	evaluate their	finish accurately.	they would like to	design criteria	
function.	finish when	Great British	Manipulate	create in their	and suggest	
Manipulates	creating a number	dishes.	appropriate	back garden.	improvements to	
appropriate	of objects and		selected materials	Make	improve	
selected materials	underwater		to achieve a	Select from and	effectiveness.	
to achieve a	creature puppets		planned effect.	use a wide range		
planned effect.	to display and		Evaluate	of tools and		
Constructs with a	move within a		Evaluate their	equipment to cut,		
purpose in mind,	static framed		ideas and	shape, join and		
using a variety of	theatre.		products against	finish their Viking		
resources.	Evaluate		their own design	Long Ship and		
Evaluate	Explore and		criteria and	Furniture Forest.		
Share their	evaluate a range		consider the views	Select from and		
creation	of existing toys		of others to	use a wide range		
explaining the	that use levers,		improve their	of materials and		
process they have	sliders and		work further.	components,		
used.	winding			including a plastic		
Textiles	mechanisms.			bottle, that are		
Introduce the	Evaluate their			appropriate when		
children to the	ideas and under			creating a product		
skill of using a	water theatre			(that you want to		
needle and thread	against the design			stay afloat on		
to join 2 pieces of	criteria.			water).		
material together				Evaluate		

with a stitch and		Investigate a	
create a		range of existing	
Caterpillar on		products -	
hessian. Extend on		reflecting on	
the above skills by		their shape and	
doing more than 1		effective	
stitch at a time on		hydrodynamic.	
binca shaped		Textiles	
butterflies		Use their	
		interpretation	
		from their sketch	
		book work, create	
		the next phase of	
		the Bayeux	
		Tapestry using	
		calico, thread and	
		needles and their	
		knowledge of	
		stitching.	

	IMPACT (END POINTS)									
EYFS	KEY STA	IGE ONE		KEY STA	GE TWO					
YEAR R	YEAR 1	YEAR 2	YEAR 3 YEAR 4 YEAR 5 YEAR							
A Reception class	A Year 1 child has	A Year 2 child can	A Year 3 children	A Year 4 children	A Year 5 children	A Year 6 children				
child is introduced to	begun to explore how	explore how their	has an understanding	has an understanding	has knowledge of a	knows the origins of				
junk modelling. They	to make a structure	product can be made	of pneumatic	of mechanical	range of mechanisms	the automobile and				
can design through	stronger, stiffer and	stronger, stiffer and	systems and how air	systems that use	including levers and	how it shaped the				
group discussions	more stable. They	more stable. They	can create	stored energy to	linkages. They can	world. They are				
with an adult. They	have been introduced	understand the	movement. They can	propel a projectile.	design by	confident in choosing				
can use scissors and	to levers, sliders and	working of a winding	apply their	They also have an	investigating existing	an appropriate				

begin to assemble	winding mechanisms	axel and can use it in	knowledge of how to	awareness of what	products and using	mechanism for a
ideas by	and chose which they	their product. They	strengthen and	makes something	this knowledge to	desired effect. They
experimenting with	want to include in	use mock ups when	stiffen a variety of	float/buoyant. They	create a design	choose a design style
materials, colours,	their product. They	designing a product.	material. They use	can strength, stiffen	criteria. They can	that is effective for
texture and form.	continue to grow in	They can select tools	measurements and	and reinforce a	create prototypes	them. They can make
They share their	designing as part of a	and materials using	accurate placement	variety of	when designing. They	products that include
creations with their	discussion group and	the correct	in their designs.	structures. They use	use protractors for	electrical systems as
peers. They	have begun drawing	vocabulary. Using	They can saw wood	research to inform	accurate	part of a mechanism.
understand what	designs with the	exisThey can use	independently,	their designs and	measurement when	They are mastery in
weaving is and how to	guidance of an adult.	running stitch with	measure accurately	understand how the	joining, fixing and	sewing skills. They
attach 2 pieces of	With adult guidance,	growing confidence	and cut, shape, join	Romans were	reinforcing a wooden	understand,
material together	they can use a saw to	and add sequins to	and finish a variety	advanced in their	structure. They	articulate and apply
using a stitch. They	cut wood. They are	materials. They can	of material for a	design and	suggest	the principles of a
have a basic	beginning to evaluate	cut, dice, slice and	desired effect. They	technology and	improvements for	healthy varied diet.
understanding of	their products	peel a variety of	can make a product	influenced others	effectiveness. They	They understand
food hygiene and	against existing	food. To evaluate	with a working	through time. They	can use a sewing	seasonality and
safe preparation and	products and a	their food products,	pneumatic system.	can follow	circle and can hand	where ingredients
can create	design criteria. They	they taste and	They can compare	instructions when	dye material	are grown, reared,
shortbread with an	can use running and	decide upon	the effectiveness of	creating a wooden	including tie to add	caught and
adult.	cross stitch with	improvement. They	their products and	structure. They have	to a desired	processed. They are
	support if needed.	understand where	consider the views of	become confident in	aesthetic.	proficient in cooking
		different fruit is	others. They are	running, cross and		and nutrition.
		grown around the	growing in confidence	back stitch and pin		
		world and why. They	with running and	material without		
		can cook and know	cross stitch and have	prompting. They		
		the origins of some	been introduced to	understand the		
		traditional British	back stitch. They can	aspects of a healthy		
		food. They	pin material for	varied diet. They		
		understand the basic	correct placement.	understand the		
		principles of a	They can prepare a	purpose of an egg		
		healthy varied diet.	Greek salad and	wash and know		
			understand why the	techniques for		
			ingredients are	preparing a variety		
			native to Greece.	of vegetables.		