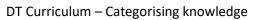




## Categorising Knowledge DT

	Cooking and nutrition	Structures	Textiles	Mechanisms/Mechanical Systems	Electrical Systems/ Digital World	Curriculum connections (Including Books)
EYFS	T3-1 - Making fruit kebabs – I know how to keep myself healthy Understanding the importance of healthy foods	3 themed Pop up cards T1-3 – I can create a pop-up card Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, form, function, texture  T3-1 space rocket - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, form, function, texture	T3-1 making crowns Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, form, function, texture  T3-2 pirate ship Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, form, function, texture Share creations, explain processes used	T1-1 Skeletons Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, form, function, texture		(including books)
Year 1	A balanced diet Explore what makes a balanced diet and taste test combinations of different food groups before designingand making a wrap.	Baby Bear's chair Experiment with different shapes and manipulate materials to explore and evaluate a range of structural properties. They apply this knowledge to their own design, make and test task		Making a car  - To explore and evaluate a range of existing products.  - To design purposeful, functional, appealing products for themselves and other users based on design criteria.  - Select from and use a wide range of materials and components including construction materials, textiles and ingredients, according to their characteristics.  - Select from and use a range of tools and equipment to perform practical tasks (for example, cutting, shaping, joining and finishing).  - To explore and use mechanisms (for example, levers, sliders, wheels and axles) in their products.  - To evaluate their ideas and products against design criteria. (Next year want to add an oracy activity creating an advert to sell their toy/product)  Vehicles, parts, moving, wheels, differences, similarities, chassis, axles, body. design, criteria. glue,		





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				pegs, rods, tubing, materials.		
				realistic, logos, evaluate, good,		
Year 2	Cooking – Xmas biscuits	Homes- Great fire of London	Fabric Bunting	improve.  Moving pictures		Three Billy Goats
Teal 2	COOKING - Annas discuits	- Explore and evaluate a range of existing	- Judge existing products	- Explore and evaluate a range of		Gruff
		products by: Understanding that we live	on a simple scale.	existing products in the context of		Gruii
		in many different types of homes, the	- use a graphics	exploring existing moving books		The Gingerbread
		names of different buildings and the main	programme to create a	- Explore and use mechanisms (for		Man
		features	simple design	example sliders), in their products		IVIGII
		- Observing carefully and draw simple	- Work with support to	in the context of using a slider to		Little Red Riding
		shapes	cut out a fabric shape	make a picture move		Hood
		- Recognising and name basic	- Start to demonstrate	- Explore and use mechanisms (for		
		mathematical shapes in the context of	how to create a basic	example levers) in their products		Jack and the
		houses and homes	stitch	in the context of using a lever to		Beanstalk
		- Select appropriate tools, materials and	- Decorate a piece of	make a picture move.		
		techniques to make a product.	fabric	- Design purposeful, functional		Building a Home –
		- Measure, mark out and cut a range of		and appealing products for		Polly Faber
		materials.	- Design purposeful,	themselves and other users based		
		- Assemble and join materials.	functional, appealing	on design criteria in the context of		The Three Little
		Using their own experiences when	products for themselves	designing an appealing moving		Wolves and the
		developing ideas	and other users based	picture.		Big Bad Pig –
		- Clarifying their ideas through discussion	on design criteria.	- Generate, develop, model and		Eugene Trivizas
		- Communicating their ideas through	- Select from and use a	communicate their ideas through		
		drawing and labelling.	range of tools and	talking, drawing, templates and		Let's Build a
		- Making suggestions as to how to	equipment to perform	mock-ups in the context of		House – Mick
		proceed.	practical tasks [for	drawing an annotated sketch to		Manning
		- Assembling, joining and combining 2D	example, cutting,	show their ideas about a moving		
		and 3D materials into a model	shaping, joining and	picture.		
		- Using basic tools safely	finishing].	- Explore and use mechanisms (for		
		- Evaluating products they have made,	- Select from and use a	example levers, sliders, wheels		
		commenting on the main features	wide range of materials	and axles) in their products in the		
		home, house, detached, semi-detached,	and components,	context of making a moving		
		bungalow, flats, terrace, storey, stairs,	including construction	picture.		
		windows, doors, hinges, materials,	materials, textiles and	- Evaluate their ideas against		
		construction,	ingredients, according to	design criteria in the context of		
		Designing houses for a family in Kampong	their characteristics Explore and evaluate a	evaluating a moving picture.		
		Ayer – creating a structure that is strong,	range of existing			
		sturdy and waterproof (house on stilts?)	products - Evaluate their			
		Link to materials work in science.	ideas and products			
		Look at materials, joining etc.	against design criteria			
Year 3	Adapting a recipe - Bread	Pavilions (Shelters)	agamet acoign criteria	Pneumatic toys		
1	. • .	Be introduced to pavilion		Examine pneumatic systems		
	Adapt a recipe by adding or altering the	•		' '		
	ingredients and then work in groups to	architecture, pupils experiment with		using syringes and balloons		
	createa final design that falls withina set	frame structures before designing		then apply their		
	budget and design brief.	their own landscape and pavilion,		understanding of mechanical		
		using a wider range of materials and		systems to create their own		
		constructiontechniques.		pneumatic toys.		
Year 4	Bread – Autumn 2	Kites – Summer 2		,	Torches – Spring Term (2)	
	Why do key people, events and current	How does structure affect how a kite			Why do key people, events and current products	
	products affect future products?	flies?			affect how we light our homes?	
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	DT Curriculum – Categorising kn	owledge			Rivermead Primary School
	- To understand how key events and	- To select from and use a wider range of		To understand how key events and individuals	Friendry School
	individuals in design and technology have	tools and equipment to measure and cut		in design and technology have helped to shape	
	helped to shape the world in the context of	the body of a kite.		the world in the context of looking at	
	the history behind Warburtons.	- To apply our understanding of how to		technological developments in the way we light	
	- To investigate and analyse a range of	strengthen, stiffen and reinforce the		our homes.	
	existing products in the context of different	structure of a kite.			
	breads made by Warburtons.	- To evaluate my kite.		What are the benefits of different circuit types	
	·	·		and switches?	
	How are designs selected?	structure, frame, strength, stiffen, bridle,		-To understand and use electrical systems in our	
	-To use research and develop design criteria	line, tail, design criteria, test, evaluate		products (for example, series circuits,	
	to inform the design of an innovative,			incorporating switches and bulbs) in the context	
	functional, appealing, new type of bread,			of understanding how a series and parallel	
	aimed at particular individuals or groups			circuit can be used to light a bulb and how	
	- To select from and use a wider range of			switches can be made and used in circuits.	
	tools and equipment to shape salt dough.				
				How can I use a design criteria to plan my	
	How can I use a design criteria to plan my			battery operated light?	
	bread?			- To use research and develop design criteria to	
	- To use research and develop design criteria			inform the design of innovative, functional,	
	to inform the design of innovative, functional,			appealing products that are fit for purpose,	
	appealing products that are fit for purpose,			aimed at particular individuals or groups in the	
	aimed at particular individuals or groups.			context of developing design criteria for a light.	
	-To generate, develop, model and			- To generate, develop, model and	
	communicate my ideas through discussion			communicate my ideas through annotated	
	and annotated sketches when creating			sketches and cross sectional diagrams in the	
	designs for a new bread product.			context of sketching a design for a light.	
	Why are processes important in making				
	bread?			Why is it important to be an innovator as a	
	- To prepare and cook a savoury/sweet new			designer?	
	bread product using a range of cooking			- To select from and use a wider range of	
	techniques.			materials and components according to their	
	- To select from and us a wider range of			functional and aesthetic properties to make the	
	equipment to perform practical tasks			main structure of a light.	
	accurately.			- To evaluate my ideas and products against	
	- To evaluate my ideas and products against			design criteria and consider the views of others	
	my own design criteria.			to improve my work.	
				STEM, science, design and technology.	
				Engineering, mathematics, chronological	
	Key vocabulary: pioneer, design, brand,			events, individuals, changing, inventors. mains,	
	industry, product, market research, texture,			battery, operated, energy, electricity,	
	appearance, flavour. Product, market			conductor, insulator, connect, series, fault,	
	research, design criteria, shape, knot. Design			parallel, circuit, components, symbol, electrical	
	criteria, original.			systems, design brief path, current, switch,	
	ingredients, yeast, knead, bread, dough, rise.			turn switch, micro switch, connect. select,	
				materials, components, switch, make,	
				functional, aesthetic, finished, quality,	
				assemble, evaluate, specification, design	
				criteria.	
Year 5	Food tech – Mexican Food. Link to converting	What does an inclusive playground need?	Mechanical models (Autumn)		Mechanical
	between units in maths		- Use research and develop design		models – design
			criteria to inform the design of		brief is for them



## DT Curriculum – Categorising knowledge

	Di Curriculum – Categorising Kil	owicage				Primary School
	Research and design a healthy meal, using	LO: Plan a detailed design, considering		innovative, functional appealing		to be displayed in
	what would be available to a Mexican farmer.	the needs of a range of users and		products that are		a museum to
	Understand what makes a balanced diet	appropriate materials		fit for purpose, aimed at		attract children to
	including macro- and micro- nutrients			particular individuals or groups in		an exhibit about
	Understand the importance of safe and	LO: design and make a high-quality		the context of researching Greek		Ancient Greece.
	healthy food preparation techniques	prototype		myths that will be used in		Link to Trojan
	Cook the different components, assemble,			their mechanical models.		Horse history
	and garnish a Mexican-inspired meal	LO: critique, evaluate and test their ideas		- Select from and use a wider		study.
		and products and the work of others		range of materials and		
				components, including		
		Materials, design brief, support,		construction materials according		
		inclusive, not-to-scale/scale model,		to their functional properties and		
		prototype		aesthetic qualities in the context		
				of selecting materials to make a		
				simple cam mechanism.		
				I can select materials according to		
				their functional properties.		
				Understand and use mechanical		
				systems in their products (for		
				example cams) in the		
				context of understanding how		
				changing the shape of the cam		
				changes the movement of the		
				follower.		
				- I can make a simple mechanism		
				to help me understand cams.		
				Cams, automata, Appearance		
				Design brief, Follower		
Year 6		Autumn Term 2	Autumn Term 1	Autumn Term 2	Autumn Term 2	Geography
		Electric Cars	Fashion design	Electric Cars	Electric Cars	sustainability
		Lesson 4 – 6 building car	To design a waistcoat	Lesson 4 – 6 building car	Lesson 1- To what extent would you be likely to	Science Electricity
		Technical knowledge NC - apply their	To mark and cut fabric	Using pulleys to support of	buy an electric car as your family car and why?	•
		understanding of how to strengthen,	according to a design	movement of car	Design NC- use research and develop a design	
		stiffen and reinforce more complex	To assemble a t-shirt	Technical knowledge NC -	criteria to inform the design of innovative,	
		structures	To decorate your t-shirt	understand and use mechanical	functional, appealing products that are fit for	
			,	systems in their products	purpose aimed at particular individuals and	
				, , , , , , , , , , , , , , , , , , , ,	groups	
			National Curriculum		-Evaluate/investigate and analyse a range of	
			Design – develop a		existing products	
			design criteria to inform		<u> </u>	
			the design of innovative,		<b>Lesson 2</b> - Why is it important for designers to	
			functional, appealing		make accurate measurements?	
			products that are fit for			
			purpose, aimed at		Lesson 3 - What might car designers consider	
			particular individuals or		when creating the body of the car?	
			groups		Investigate 3D nets	
			- generate, develop,		Design NC – Develop a prototype for the car	
			model and		design.	
			communicate their ideas		acsign.	
			through discussion,		Lesson 4 – 6 building car	
			amough discussion,		Build an electrical circuit	
1		1		į	Dana an electrical tricuit	

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DT Curriculum – Categorising knowledge			Rivermead Primary School
	annotated sketches and	understand and use electrical systems in their	
	pattern pieces	products.	
	Make - select from and		
	use a wider range of		
	tools and equipment to		
	perform practical tasks		
	accurately		
	- select from and use a		
	wider range of materials		
	and components,		
	including construction		
	materials, textiles,		
	according to their		
	functional properties		
	and aesthetic		
	qualities.		
	Evaluate - evaluate their		
	ideas and products		
	against their own design		
	criteria and consider the		
	views of others to		
	improve their work		

This overview organises the curriculum into our main categorises to support the children with making important learning connections and support with building subject schema. If you would like further detail regarding this curriculum area please e-mail your enquiry to:

<a href="mailto:admin@rivermead.wokingham.sch.uk">admin@rivermead.wokingham.sch.uk</a> with the subject "DT Curriculum enquiry FAO Curriculum and DT leader"</a>