	Design, make,	Take	Cooking and	Materials	Computing	Construction	Textiles	Mechanics	Electricals and
	evaluate and	Inspiration	nutrition						electronics
	improve	from design							
		throughout							
		_							
	- I · I · · · · · · · · · · · · · · · ·	history		- II.			111		
	• Explain what they		<ul> <li>Understand where food comes from.</li> </ul>	• Fold, tear and cut		Mark out materials to	Weave with a range     different febries	Attach wheels to	
	are making and which			paper or card.		be cut using a template.	of different fabrics.	chassis using an axle.	
	materials they are		Group familiar food     products a g fruit and	Investigate     strongthoning shoot		With support cut strip  wood /downlysing a	• Sew and join fabrics	Make vehicles with	
	using.		products e.g. fruit and	strengthening sheet materials.		wood/dowel using a hacksaw.	using a running stitch.	construction kits which contain free	
-	<ul> <li>Design products that have a clear purpose</li> </ul>		vegetables.			Make vehicles with		running wheels.	
Year	and an intended user.		• Cut ingredients safely.	<ul> <li>Roll paper to create tubes.</li> </ul>		construction kits which		running wheels.	
>	Use pictures and		<ul> <li>Prepare simple dishes-safely and</li> </ul>	Demonstrate a range		contain free running			
	words to convey what		hygienically-without	of joining techniques		wheels.			
	they want to make.		using a heat source.	such as gluing or taping.		WITEEIS.			
	Make products,		danig a ficul source.	Measure and mark					
	using a range of tools			out lines.					
	to cut, shape, join and		•Group foods into the	Demonstrate a range		Use a range of	Cut out shapes which	Use a range of	
	finish.		five groups in The	of joining techniques		materials to create	have been created by	materials to create	
	Say what they like		Eatwell Plate.	such as gluing, taping or		models with wheels and	drawing round a	models with wheels	
	and don't like about		• Cut, grate or peel	creating hinges.		axles e.g. tubes, dowel	template onto the	and axles e.g. tubes,	
	their product and		ingredients safely.	Cut materials safely		and cotton reels.	fabric.	dowel and cotton	
2	explain why.		<ul> <li>Prepare simple</li> </ul>	using tools provided.		Use materials to	Begin to sew using a	reels.	
Year	<ul> <li>Talk about how</li> </ul>		dishes-safely and	Demonstrate a range		practise drilling,	range of basic stitches.		
>	closely their finished		hygienically-without	of cutting and shaping		screwing, nailing and			
	product meets their		using a heat source.	techniques such as		gluing to strengthen			
	design criteria.		<ul> <li>Measure or weigh</li> </ul>	tearing, cutting, folding		products.			
	Begin to use		using cups or electronic	and curling.					
	software to represent		scales.	<ul> <li>Use simple pop-ups.</li> </ul>					
	2D designs.								
	Investigate existing	Identify some of		Measure and mark	Generate designs	Strengthen frames			
	products to analyse	the great designers	diet is made up from a	out accurately.	with annotated	using diagonal struts.			
	and understand how	in all of the areas of	variety of different	Cut materials	sketches and	Investigate how to			
	they are made.	study (including	food and drink, as	accurately and safely by	computer-aided design	make structures more			
	Develop ideas to	pioneers in	depicted in The Eatwell Plate.	selecting appropriate	(CAD) where	stable e.g by widening			
က	create a design.	horticultural techniques) to		tools.	appropriate.	the base.			
Year	Generate designs with annotated sketches.	generate ideas for	<ul> <li>Measure ingredients using scales.</li> </ul>	Cut slots and internal     shapes					
>	• Identify steps to	designs. Improve	<ul><li>Prepare ingredients</li></ul>	shapes.					
	make their product.	upon existing	hygienically and using						
	Understand what a	designs, giving	the appropriate						
	prototype is and make	reasons for choices.	utensils by following a						
	a basic model.	• Disassemble	recipe.						
		products to							

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	D. C							
	Reflect on work and	understand how						
	techniques as work	they work.						
	progresses.							
	<ul> <li>Identify strengths</li> </ul>							
	and weaknesses of							
	their design ideas.							
	<ul> <li>Talk about how</li> </ul>							
	closely their finished							
	product meets their							
	design criteria and							
	meets the need of the							
	user.							
	Investigate existing	Identify some of	Measure and mark			Join fabrics using a	Begin to use	Create series
	products, including	the great designers	out to the nearest mm.			range of stitches with	mechanical systems	circuits.
	drawing them to	in all of the areas of	Use and explore			increasing	in their products	circuits.
	analyse and	study (including				_	in their products	
	understand how they	pioneers in	complex popups.			independence. • Add		
	·	horticultural	Create nets.			further decoration to		
	are made.					their work using		
	Develop more than	techniques).				buttons , beads,		
	one design.	Improve upon				sequins etc		
	<ul> <li>Generate designs</li> </ul>	existing designs,				Use a pattern		
	with annotated	giving reasons for				<ul> <li>Sewing skills are</li> </ul>		
	sketches and	choices.				becoming more		
	computer-aided	Disassemble				accurate.		
	design (CAD) where	products to						
	appropriate.	understand how						
	<ul> <li>Plan a sequence of</li> </ul>	they work.						
	actions to make a							
Year 4	product.							
, lea	<ul> <li>Develop prototypes.</li> </ul>							
	<ul> <li>Refine work and</li> </ul>							
	techniques as work							
	progresses,							
	continually evaluating							
	the product design.							
	• Identify strengths							
	and weaknesses of							
	their design ideas,							
	with suggestions on							
	how the product could							
	be improved.							
	-							
	Analyse how closely  their finished product							
	their finished product							
	meets their design							
	criteria and meets the							
	need of the user.							
	Undertake research	Combine element	Join/combine	Control a model using	Use a glue gun with		Understand and	
r 5	to inform design	of design from a	materials with	an ICT control model.	close supervision.		use mechanical	
Year	process.	range of	temporary, fixed or	<ul> <li>Use prototypes,</li> </ul>	<ul> <li>Join materials using</li> </ul>		structures in their	
>	<ul> <li>Use prototypes</li> </ul>	inspirational	moving joints.	cross-sectional	appropriate methods.		products e.g. gears,	
	confidently to	designs throughout		diagrams, exploded				

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## Cam Woodfield Junior School Design & Technology Curriculum Progression Map



represent their	history, giving	Measure and mark	diagrams and CAD	●Use a hand drill to drill	pulleys, levers and	
designs including CAD	reasons for choices.	out to the nearest mm.	software to represent	tight and loose fit holes.	gears.	
software where	Create innovative	<ul> <li>Cut materials with</li> </ul>	designs.	Cut wood accurately to	<ul> <li>Use a cam to make</li> </ul>	
necessary.	designs that	precision.		1mm. Build frameworks	an up and down	
<ul><li>Identify and</li></ul>	improve upon	<ul> <li>Cut accurately and</li> </ul>		using a range of materials	mechanism.	
understand the	existing products.	safely to a marked line.		e.g. wood, card and		
materials and	<ul> <li>Evaluate the</li> </ul>			corrugated plastic.		
methods of	design of products					
construction of a	so as to suggest					
product.	improvements to					
<ul> <li>Complete products</li> </ul>	the user					
to a high-quality	experience.					
finish.						
<ul> <li>Make suggestions on</li> </ul>						
how their						
design/product could						
be improved.						
<ul> <li>Make relevant</li> </ul>						
improvements on						
their						
designs/products.						
<ul> <li>Consider the views</li> </ul>						
of others when						
evaluating their own						
work.						

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	Undertake research	Combine element	Assemble or cook	Cut materials with			Create products	Create circuits that
	to inform design	of design from a	ingredients, controlling	precision and refine the			using pattern pieces	employ a number of
	process including the	range of	the temperature of the	finish with appropriate			and demonstrate an	components (such
	use of	inspirational	oven or hob if cooking.	tools (such as sanding			awareness of seam	as LEDs, resistors
	surveys/interviews.	designs throughout	<ul> <li>Combine ingredients</li> </ul>	wood).			allowance.	and transistors).
	<ul> <li>Use prototypes,</li> </ul>	history, giving	appropriately e.g.	Show an			Pin and tack fabric	Create parallel
	cross-sectional	reasons for choices.	beating or rubbing.	understanding of the			pieces together.	circuits.
	diagrams, exploded	<ul> <li>Create innovative</li> </ul>	<ul> <li>Measure ingredients</li> </ul>	qualities of materials to			Join fabrics by over	
	diagrams and CAD	designs that	to the nearest gram	choose appropriate			sewing, back stitch,	
	software to represent	improve upon	and millilitre and	tools to cut and shape.			blanket stitch.	
	designs.	existing products.	calculate ratios of				Make quality	
	<ul> <li>Justify their</li> </ul>	<ul> <li>Evaluate the</li> </ul>	ingredients to scale up				products with	
	decisions about	design of products	or down from a recipe.				increasing accuracy	
	materials and	so as to suggest	<ul> <li>Understand</li> </ul>				and independence.	
9	methods of	improvements to	seasonality and know					
Year	construction of a	the user	where and how a					
>	product.	experience.	variety of ingredients					
	<ul> <li>Ensure products</li> </ul>		are grown, reared,					
	have a high-quality		caught and processed.					
	finish, using art skills		<ul> <li>Create and refine</li> </ul>					
	where appropriate.		recipes, including					
	<ul> <li>Identify and</li> </ul>		ingredients, methods,					
	implement actions on		cooking times and					
	how their		temperatures.					
	design/product could		<ul> <li>Understand the</li> </ul>					
	be improved, with		importance of correct					

justifications.

work.

• Consider the views

of the user when evaluating their own

storage and handling of

ingredients.

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