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Design and Technology	Designing	Making	Evaluating	Technical knowledge
Nursery	Begin to select appropriate	Begin to construct with a	With support, adapt work if	Begin to measure and join
	resources	purpose, using a variety of	necessary	materials, with some
		resources		support
	Beginning to use gestures,		Exploring activities involving	
	talking and arrangements of	Use simple tools and	dismantling, examining and	Discuss differences in
	materials and components	techniques	talking about existing	materials
	to show design		objects/structures	
		Begin to build / construct		Suggest ways to make
		with a wide range of objects		material/product stronger
	Use contexts set by the	Select tools & techniques to	Consider and manage some	Begin to measure and join
Reception	teacher and myself	shape, assemble and join	risks	materials using a variety of
				tools.
ELG	Use language of designing	Replicate structures with	Practise some appropriate	
Children safely use and	and making (join, build,	materials / components	safety measures	Describe differences in
explore a variety of	shape, longer, shorter,		independently	materials using appropriate
materials, tools and	heavier etc.)	Discuss how to make an		vocabulary.
techniques, experimenting		activity safe and hygienic	Talk about how things work	
with colour, design, texture				Suggest ways to make
form and function.		Record experiences by	Look at similarities and	material/product stronger
		drawing, writing, voice	differences between	and explain decisions.
Children use what they have		recording	existing objects / materials /	
learnt about media and			tools	
materials in original ways,		Understand different media		
thinking about uses and		can be combined for a	Show an interest in	
purposes. They represent		purpose	technological toys	
their own ideas, thoughts				
and feelings through design			Describe textures	
and technology, art, music,				
dance, role-play and stories.				

Year 1:	Beginning to design purposeful, functional,	Select from and use a range of tools and equipment to	Beginning to explore and evaluate a range of existing	Beginning to build structures, exploring how
	appealing products for	perform practical tasks [for	products. Evaluate my ideas	they can be made stronger,
	myself and other users	example, cutting, shaping,	and products against design	stiffer and more stable.
	based on design criteria.	joining and finishing].	criteria	Beginning to explore and
	Beginning to generate,	Select from and use a wide		use mechanisms [for
	develop, model and	range of materials and		example, levers, sliders,
	communicate my ideas	components, including		wheels and axles], in
	through talking, drawing,	construction materials,		products
	templates, mock-ups and,	textiles and ingredients,		
	where appropriate,	according to their		
	information and	characteristics.		
	communication technology			
Year 2:	Able to design purposeful,	Confidently select from and	Is able to explore and	Is able to build structures,
	functional, appealing	use a range of tools and	evaluate a range of existing	exploring how they can be
	products for myself and	equipment to perform	products.	made stronger, stiffer and
	other users based on design	practical tasks [for example,	Evaluate my ideas and	more stable.
	criteria.	cutting, shaping, joining and	products against design	Is able to explore and use
	Able to Generate, develop,	finishing].	criteria	mechanisms [for example,
	model and communicate my	Can explain the reasoning		levers, sliders, wheels and
	ideas through talking,	behind the selection of and		axles], in products.
	drawing, templates, mock-	be confident in the use a		
	ups and, where appropriate,	wide range of materials and		
	information and	components, including		
	communication technology.	construction materials,		
		textiles and ingredients,		
		according to their		
		characteristics.		
Year 3:	Beginning to research and	Select from and use a wide	Investigate and analyse a	Beginning to apply
	develop design criteria to	range of tools and	range of existing products. •	understanding of how to
	inform the design of	equipment to perform	Evaluate my ideas and	strengthen, stiffen and
	innovative, functional,	practical tasks [for example,	products against my own	reinforce more complex
	appealing products that are		design criteria and consider	structures.

	fit for purpose, aimed at particular individuals or groups. Beginning to generate, develop, model and communicate my ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	cutting, shaping, joining and finishing]. Select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.	the views of others to improve my work. • Understand how key events and individuals in design and technology have helped shape the world.	Beginning to understand and use mechanical systems in products [for example, gears, pulleys, cams, levers and linkages].
Year 4:	Able to research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. Able to generate, develop, model and communicate my ideas through talking, drawing, templates, mock- ups and, where appropriate, information and communication technology.	confidently select from and use a wide range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately. Adeptly select from and use a wider range of materials and Select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristics.	Investigate and analyse a range of existing products. • Evaluate my ideas and products against my own design criteria and consider the views of others to improve my work. • Understand how key events and individuals in design and technology have helped shape the world.	Able to apply understanding of how to strengthen, stiffen and reinforce more complex structures. Understands and uses mechanical systems in products [for example, gears, pulleys, cams, levers and linkages].
Year 5:	Beginning to use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at	confidently select from and use a wide range of tools and equipment to perform intricate tasks [for example, cutting, shaping, joining and finishing], accurately.	Investigate and analyse a range of existing products. • Evaluate my ideas and products against my own design criteria and consider the views of others to	confidently apply understanding of how to strengthen, stiffen and reinforce more complex structures.

	particular individuals or groups. Beginning to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross- sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design	Adeptly select from and confidently use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.	improve my work. • Understand how key events and individuals in design and technology have helped shape the world.	Good understand and use of mechanical systems in products [for example, gears, pulleys, cams, levers and linkages].
Year 6:	Able to use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. Able to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.	confidently select from and use a wide range of tools and equipment to perform intricate tasks [for example, cutting, shaping, joining and finishing], accurately. Be selective in their choice of and be able to adeptly use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities. Be able to explain their reasoning for their choices.	Investigate and analyse a range of existing products. • Evaluate my ideas and products against my own design criteria and consider the views of others to improve my work. • Understand how key events and individuals in design and technology have helped shape the world.	Expertly apply understanding of how to strengthen, stiffen and reinforce more complex structures. Deeper understanding of and use of mechanical systems in products [for example, gears, pulleys, cams, levers and linkages].