

Overview of Design & Technology- National Curriculum (Layer 1)

	Statutory Framework for EYFS 2021 -Early Learning Goals	Statutory Framework for EYFS 2021 -Characteristics of effective learning	Development Matters 2021
Reception	 Creating with Materials Children at the expected level of development will: - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function; Share their creations, explaining the process they have used; Make use of props and materials when role playing characters in narratives and stories. 	Playing and exploring Make independent choices. Do things independently that they have been previously taught. Active learning Use a range of strategies to reach a goal they have set themselves. Begin to correct their mistakes themselves. For example, instead of using increasing force to push a puzzle piece into the slot, they try another piece to see if it will fit. Keep on trying when things are difficult Creating and thinking critically Review their progress as they try to achieve a goal. Check how well they are doing. Know more, so feel confident about coming up with their own ideas. Make more links between those ideas. Concentrate on achieving something that's important to them. They are increasingly able to control their attention and ignore distractions.	Return to and build on their previous learning, refining ideas and developing their ability to represent them. Create collaboratively, sharing ideas, resources and skills

taught to: taught to: design purposeful, functional, taught to: taught to: taught to: explore and evaluate a range of build structur		Design	Make	Evaluate	Technical Knowledge
other users based on design criteria generate, develop, model and communicate their ideas through tasks [for example, cutting, shaping, joining and finishing] joining and finishing] select from and use a wide range of tasks [for example, cutting, shaping, joining and finishing] against design criteria example, level example, level	-	Through a variety of creative and practical activi range of relevant c When designing and making, pupils should be taught to: design purposeful, functional, appealing products for themselves and other users based on design criteria generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and, where appropriate, information	ties, pupils should be taught the knowledge, understan contexts [for example, the home and school, gardens are When designing and making, pupils should be taught to: • select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] • select from and use a wide range of materials and components, including construction materials, textiles and	ding and skills needed to engage in an iterative proces d playgrounds, the local community, industry and the When designing and making, pupils should be taught to: explore and evaluate a range of existing products evaluate their ideas and products	s of designing and making. They should work in a wider environment] When designing and making, pupils should be taught to: • build structures, exploring how they can be made stronger, stiffer and more



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Key Stage 2	Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a					
	range of relevant contexts [for example, the home, school, leisure, culture, enterprise, industry and the wider environment].					
	When designing and making, pupils should be	When designing and making, pupils should be	When designing and making, pupils should be	When designing and making, pupils should be		
	taught to:	taught to:	taught to:	taught to:		
	 use research and develop design 	 select from and use a wider range of 	 investigate and analyse a range of 	 apply their understanding of how to 		
	criteria to inform the design of	tools and equipment to perform	existing products	strengthen, stiffen and reinforce more		
	innovative, functional, appealing	practical tasks [for example, cutting,	 evaluate their ideas and products 	complex structures		
	products that are fit for purpose, aimed	shaping, joining and finishing],	against their own design criteria and	 understand and use mechanical 		
	at particular individuals or groups	accurately	consider the views of others to	systems in their products [for example,		
	 generate, develop, model and 	 select from and use a wider range of 	improve their work	gears, pulleys, cams, levers and		
	communicate their ideas through	materials and components, including	 understand how key events and 	linkages]		
	discussion, annotated sketches, cross-	construction materials, textiles and	individuals in design and technology	 understand and use electrical systems 		
	sectional and exploded diagrams,	ingredients, according to their	have helped shape the world	in their products [for example, series		
	prototypes, pattern pieces and	functional properties and aesthetic		circuits incorporating switches, bulbs,		
	computer-aided design	qualities		buzzers and motors]		
				 apply their understanding of 		
				computing to program, monitor and		
				control their products.		



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