



## Design Technology

## Progression of Skills and Knowledge in Design Technology

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
			Design			
(Managing Self) Be confident to try new activities and show independence, resilience and perseverance in the face of challenge (Self Regulation) Set and work towards simple goals, being able to wait for what they want and control their immediate impulses when appropriate (Creating with Materials) Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function	Design simple products that work and look appealing Discuss and draw ideas and use ICT to communicate	Design products for others and themselves that are purposeful, functional and appealing  Generate, develop, model and communicate ideas through talking, drawing, templates and ICT	Communicate Ideas using different strategies eg discussion, sketch Use research to Inform design Take risks to become Innovative and resourceful	Communicate, generate and develop ideas using a range of strategies eg prototypes, pattern pieces  Use research to inform design and develop design criteria  Take risks to become innovative and resourceful	Communicate, generate, develop and model ideas using a range of strategies eg computer-aideddesign, cross-sectional and exploded diagrams  Use research to inform design and generate own design criteria  Communicate, generate and develop ideas, drawing on other disciplines eg science, maths, computing  Confidently take calculated risks to become innovative, resourceful and enterprising	Communicate, generate and develop Ideas, drawing on other disciplines eg science, maths, computing  Use research to inform innovative design and generate own design criteria  Confidently take calculated risks to become innovative, resourceful and enterprising
			Evaluate			
(Speaking) Offer explanations for why things might happen, making use of recently introduced vocabulary from stories, non-fiction, rhymes and poems when appropriate (Creating with Materials) Share their creations, explaining the process they have used	Explore existing products eg home, school Discuss own Ideas and designs	Explore and evaluate a range of existing products eg home, school Evaluate own ideas and designs against given design criteria	Evaluate own ideas and designs against given design criteria and consider the views of others to improve their work.  Investigate a range of existing products that address real/relevant problems, in a range of relevant contexts eg home, leisure, school	Evaluate own and others' work suggesting improvements and consider the views of others to improve their work.  Investigate a range of existing products in a range of relevant contexts eg culture, industry.	Generate own design criteria and evaluate ideas and products against these Investigate and analyse a range of existing products that address real/relevant problems, in a range of relevant contexts  Understand how key events and individuals in D&T helped to shape the world	Generate own design criteria and critique ideas and products against these Explain and understand how key events and individuals in D&T helped to shape the world

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	Technical Knowledge									
ways stren	rt to build structures, exploring rs to stiffen, stable and engthen dore stmple mechanisms	Build structures, exploring ways to stiffen, stabilise and strengthen Explore and use mechanisms eg levers, wheels and axles	Apply understanding of how to strengthen, stiffen and reinforce structures identify range of mechanical systems and how they work (gears, pulleys, cams, levers and linkages)	Apply understanding of how to strengthen, stiffen in order to reinforce more complex structures Use computing to program, monitor and control products Identify wider range of mechanical systems and how they work (gears, pulleys, cams, levers and linkages) Use understanding of electrical systems (series circuits, switches, bulbs and motors)	Construct more complex structures by applying range of strategles in order to solve real/ relevant problems Drawing on disciplines & making connections to wider subject areas, apply understanding of computing to program, monitor and control products Making connections to real & relevant problems, apply understanding of wider range of mechanical systems (gears, pulleys, cams, levers and linkages) Making connections to real & relevant problems, apply understanding of electrical systems (series circuits, switches, bulbs and motors)	Construct more complex structures by applying range of strategles in order to solve real / relevant problems Drawing on disciplines & making connections to wider subject areas, apply understanding of computing to program, monitor and control products Making connections to real & relevant problems, apply understanding of wider range of mechanical systems (gears, pulleys, cams, levers and linkages) Making connections to real & relevant problems, apply understanding of electrical systems (series circuits, switches, bulbs and motors)				

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		'	Make	,	,	10
(Fine Motor) Hold a pencil effectively in preparation for fluent writing — using the tripod grip in almost all cases — Use a range of small toys, including scissors, paint brushes and cutlery — Begin to show accuracy and care when drawing (Creating with Materials) Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function	Use a range of materials and components eg construction, textiles and ingredients.  Use a range of tools and equipment to perform practical tasks eg cut, shape, join and finish	Select from and use a wide range of materials and components (according to their characteristics) eg construction, textiles and ingredients  Select from and use a wide range of tools and equipment to perform practical tasks eg cut, shape, join and finish	Select from and use a wide range of tools, equipment, materials and components accurately	Select from and use a wider range of tools, equipment, materials and components accurately to make prototypes	According to their functional properties and aesthetic qualities, select from and use a wide range of tools, equipment, materials and components accurately to make high quality prototypes	According to their functional properties and aesthetic qualities, select from and use a wide range of tools, equipment, materials and components accurately to make high Safely use and explore a variety of quality prototypes
			Food Technology			
	Begin to understand where food comes from Prepare simple dishes using knowledge of healthy food	Use basic principles of a healthy and varied diet to prepare dishes Understand where food comes from	Apply principles of a healthy, varied diet when preparing variety of savoury dishes Apply understanding of seasonality and its link to ingredients	Know where and how a variety of ingredients is grown, reared, caught and processed	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques	Prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques  Know where and how a variety of ingredients are grown, reared, caught and processed and its impact on meal design  Develop crucial life skill of feeding themselves and others affordably and well