

Design and Technology KNOWLEDGE AND SKILLS PROGRESSION



Skills	Year 3	Year 4	Year 5	Year 6
Technical Knowledge	Pupils can begin to choose appropriate tools, equipment, components and techniques to make functional products.	Pupils can choose appropriate tools, equipment, components and techniques to make functional products.	Pupils can choose appropriate tools, equipment, components and techniques to make functional products.	Pupils can choose appropriate tools, equipment, components and techniques to make functional products.
	Pupils can begin to apply technical knowledge and understanding of the nature of materials to cut, shape and join them with some accuracy.	Pupils can apply their technical knowledge and understanding of the nature of materials to cut, shape and join them with some accuracy.	Pupils can apply their technical knowledge and understanding of the nature of materials to cut, shape and join them with accuracy.	Pupils can apply their technical knowledge and understanding of the nature of materials to cut, shape and join them with accuracy.
	Pupils can begin to apply understanding of how to strengthen, stiffen and reinforce more complex structures	Pupils can apply their understanding of how to strengthen, stiffen and reinforce more complex structures.	Pupils understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages.	Pupils understand and use mechanical systems in their products [for example, gears, pulleys, cams, levers and linkages.
		Pupils understand and use electrical systems in products (for example, series circuits, incorporating switches, bulbs, buzzers and motors).	Pupils can begin to apply their understanding of computing to program, monitor and control their products.	Pupils can apply their understanding of computing to program, monitor and control their products.
Designing and Making	Pupils can generate ideas and recognise how designs could meet a range of different needs and users. Pupils can begin to think ahead about the order of their work and	Pupils can generate ideas and recognise their designs could meet a range of different needs and users. Pupils can think ahead about the order of their work and make a	Pupils 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.	Pupils 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.



Evaluation

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mal	ke a	real	istic	plan	for	ach	nievi	ng
the	ir aiı	ms.						

Pupils can begin to produce step by step plans to generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and patterns and select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

Pupils can begin to select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.

Pupils can begin to reflect on the design and make process and identify some improvements to their products.

Pupils can begin to understand how key events and individuals in design and technology have helped shape the world. (Go Green homework – research child realistic plan for achieving my aims.

Pupils produce step by step plans to generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and patterns and select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

Pupils can select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.

Pupils can reflect on the design and make process and identify some improvements to their products.

Pupils understand how key events and individuals in design and technology have helped shape the world. Pupils can generate, develop, model and communicate their ideas through discussion, annotated sketches, crosssectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.

Pupils can select from and use a wider range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing], accurately.

Pupils can select from and use a wider range of materials and components, including construction materials, textiles and ingredients, according to their functional properties and aesthetic qualities.

Pupils can investigate and analyse a range of existing products, evaluate their ideas and products against their own design criteria and consider the views of others to improve their work.

Pupils understand and can explain how key events and individuals in

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Pupils can understand and complain how key events and individuals in design and



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inventors should we consider key events / individuals instead?)		sign and technology have Iped shape the world.	technology have helped shape the world.
	well to o Whe	hen evaluating, pupils pay	Pupils can identify what is working well and what could be improved to overcome technical problems and give reasons why When evaluating, pupils pay attention to the quality of finish.



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HISTORICAL
COMMUNICATION

Pupils can present recalled or selected information in a variety of ways using specialist vocabulary.

Pupils can record some of the main events, people and changes in the history of Britain and the wider world.

Pupils are beginning to use place value in the context of timelines.

Pupils can thoughtfully select and organise relevant historical information and use key historical vocabulary in structured, informed, written responses, analyses or descriptions.

Pupils can make pertinent and valid comparisons between periods.

Pupils confidently use/apply mathematical skills when placing events in chronological order, using place value, negative nos. etc

HISTORICAL CONCEPTS

Pupils <u>are beginning to discuss</u> the reasons for and the results of the main events and changes of a time studied.

Pupils <u>are beginning to discuss</u> a range of similarities/ differences between different times in the past in the periods covered so far.

Pupils <u>can give reasons for</u> and the results of the main events and changes of a time studied.

Pupils <u>can identify</u> a range of similarities/ differences between different times in the past in the periods covered so far.

Pupils <u>are starting to understand</u> the complexity of people's lives in the past and how some societies are very different due to changes or challenges at the time.

Pupils can see the relationship between different periods and are beginning to discuss the impact of them.

Pupils are starting to understand change and continuity (eg what changes/stays the same between different periods of time)

Pupils can discuss trends over time (communication).

Pupils <u>can discuss</u> the complexity of people's lives in the past and how some societies are very different due to changes or challenges at the time.

Pupils can see the relationship between different periods and the legacy or impact on them and their identity.

Pupils understand change and continuity (eg what changes/stays the same between different periods of time)

Pupils can discuss trends over time (children's toys and clothes).