

Design	Year N/R children should	Year 1/2 children should	Year 3/4 children should Year 5/6 children should
Curriculum objectives	 construct with a purpose in mind, using a variety of resources. represent their own ideas, thoughts and feelings through design and technology 	 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, mockups and, where appropriate, ICT 	 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 generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design
PDA – Designing Contexts, uses and purposes	 work confidently within a range of contexts, such as imaginary, story-based, home, school, gardens, playgrounds, local community, industry and the wider environment state what products they are designing and making describe what their products are for say how their products will work 	 work confidently within a range of contexts, such as imaginary, story-based, home, school, gardens, playgrounds, local community, industry and the wider environment state what products they are designing and making say whether their products are for themselves or other users describe what their products are for say how their products will work say how they will make their products suitable for their intended users use simple design criteria to help develop ideas 	 8. gather information about the needs and wants of particular individuals and groups 9. develop their own design criteria and use these to inform their ideas 10. carry out research, using surveys, interviews, questionnaires and webbased resources 11. identify the needs, wants, preferences and values of particular individuals and groups 12. develop a simple design specification to guide their thinking 13. work confidently within a range of contexts, such as the home, school, leisure, culture, enterprise, industry and the wider environment 14. describe purpose of their products 15. indicate the design features of their products that will appeal to intended users 16. explain how particular parts of their products work
PDB – Designing Ideas	 generate ideas by drawing on their own experiences develop and communicate ideas by talking 	1. generate ideas by drawing on their own experiences 2. use knowledge of existing products to help come up with ideas 3. develop and communicate ideas by talking and drawing 4. model ideas by exploring materials, components and construction kits and by making templates and mockups 5. use information and communication technology, where appropriate, to develop and communicate their ideas	 6. generate realistic ideas, focusing on the needs of the user 7. make design decisions that take account of the availability of resources 10. share and clarify ideas through discussion 11. model their ideas using prototypes and pattern pieces 12. use annotated sketches, cross-sectional drawings and diagrams 13. use computer-aided design





Make	Year N/R children should	Year 1/2 children should	Year 3/4 children should Year 5/6 children should
Curriculum objectives	 use simple tools and techniques competently and appropriately. select appropriate resources and adapts work where necessary. select tools and techniques needed to shape, assemble and join materials they are using. 	select from and use a range of tools and equipment to perform practical tasks [e.g. cutting, shaping, joining and finishing] select from and use a wide range of materials and components, including construction materials, textiles and ingredients, according to their characteristic	 select from and use a wider range of tools and equipment to perform practical tasks [e.g. cutting, shaping, joining and finishing], accurately 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
PMA - Making	 select from a range of tools and equipment, explaining their 	1. plan by suggesting what to do next 2. select from a range of tools and equipment, explaining their choices 3. select from a range of materials and components according to their characteristics	 4. order the main stages of making 5. produce detailed lists of tools, equipment and materials needed 6. formulate step-by-step plans as a guide to making 7. select tools and equipment suitable for the task 8. explain their choice of tools and equipment in relation to the skills and techniques
Planning	their characteristics		they will be using 9. select materials and components suitable for the task 10. explain their choice of materials and components according to functional properties and aesthetic qualities
PMB – Making Practical skills and techniques	 follow procedures for safety and hygiene use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components follow procedures for safety and hygiene use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components measure, mark out, cut and shape materials and components assemble, join and combine materials and components use finishing techniques, including those from art and design 	 6. measure, mark out, cut and shape materials and components with some accuracy 7. assemble, join and combine materials and components with some accuracy 8. apply a range of finishing techniques, include those from art and design, with some accuracy 10. accurately assemble, join and combine materials / components 11. accurately apply a range of finishing techniques, including those from art and design 12. use techniques that involve a number of steps 13. demonstrate resourcefulness, e.g. make refinements 	
		5. use finishing techniques, including those	 14. follow procedures for safety and hygiene 15. use a wider range of materials and components, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components





Evaluate	Year N/R children should	Year 1/2 children should	Year 3/4 children should	Year 5/6 children should
Curriculum objectives	 represent their own ideas, thoughts and feelings through design and technology use and explore a variety of materials, tools and techniques. 	 explore and evaluate a range of existing products evaluate their ideas and products against design criteria 	views of others to improve their work	ng products st their own design criteria and consider the als in design and technology have helped
PEA – Evaluating Own ideas and products	 talk about their design ideas and what they are making 	 talk about their design ideas and what they are making make simple judgements about their products and ideas against design criteria suggest how their products could be improved 	 4. refer back to their design criteria as they design and make 5. use their design criteria to evaluate their completed products 	 critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make evaluate their ideas and products against their original design specification
			8. identify the strengths and weaknesses of their ideas and products9. consider the views of others, including intended users, to improve their work	
PEB – Evaluating	Explore: who products are for what products are for how products work	Explore: 1. what products are 2. who products are for 3. what products are for 4. how products work	Investigate and analyse: 9. who designed and made the products 10. where products were designed and made 11. when products were designed and made 12. whether products can be recycled or reused	Investigate and analyse: 13. how much products cost to make 14. how innovative products are 15. how sustainable the materials in products are 16. what impact products have beyond their intended purpose
Existing products	- What they like and assike about	Investigate and analyse: 17. how well products have been designed 18. how well products have been made 19. why materials have been chosen 20. what methods of construction have been used 21. how well products work 22. how well products achieve their purposes 23. how well products meet user needs and wants		
PEC – Evaluating Key events/ individuals	N/A	N/A	identify great designers and their work and use research of designers to influence work	identify great designers and their work and use research of designers to influence work





Technical knowledge	Year N/R children should	Year 1/2 children should	Year 3/4 children should	Year 5/6 children should
Curriculum objectives	realise tools can be used for a purpose	 build structures, exploring how they can be made stronger, stiffer and more stable explore and use mechanisms [e.g. levers, sliders, wheels and axles], in their products 	levers and linkages] understand and use electrical systems in the switches, bulbs, buzzers and motors] apply their understanding of computing to p	their products [for example, gears, pulleys, cams, ir products [e.g. series circuits incorporating program, monitor and control their products
PTK – technical knowledge Making products work	 use various construction materials know that a single fabric shape can be used to make a 3D textiles product join construction pieces together to build and balance. 	 Know: about the simple working characteristics of materials and components about the movement of simple mechanisms such as levers, sliders, wheels and axles how freestanding structures can be made stronger, stiffer and more stable that a 3-D textiles product can be assembled from two identical fabric shapes that food ingredients should be combined according to their sensory characteristics the correct technical vocabulary for the projects they are undertaking 	 Know: 7. how mechanical systems such as levers and linkages or pneumatic systems create movement 8. how simple electrical circuits and components can be used to create functional products 9. how to program a computer to control their products 10. how to make strong, stiff shell structures 11. that a single fabric shape can be used to make a 3D textiles product 12. that food ingredients can be fresh, precooked and processed Know: 19. how to use learning from science to help de 20. how to use learning from mathematics to he 21. that materials have both functional properti 22. that materials can be combined and mixed 23. that mechanical and electrical systems hav 24. the correct technical vocabulary for the procession 	elp design and make products that work es and aesthetic qualities to create more useful characteristics e an input, process and output





Cooking & Nutrition	Year N/R children should	Year 1/2 children should	Year 3/4 children should Year 5/6 children should
Curriculum objectives	 use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from 	 use the basic principles of a healthy and varied diet to prepare dishes understand where food comes from 	 understand and apply the principles of a healthy and varied diet prepare and cook a variety of predominantly savoury dishes using a range of cooking techniques understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed
PCNA – cooking and nutrition Where food comes from	 know that food has to be farmed, grown elsewhere (e.g. home) or caught 	 know that all food comes from plants or animals know that food has to be farmed, grown elsewhere (e.g. home) or caught 	3. know that seasons may affect the food available 4. know how food is processed into ingredients that can be eaten or used in cooking 5. know that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world
PCNB – cooking and nutrition Food prep, cooking and nutrition	 know that everyone should eat at least five portions of fruit and vegetables every day how to prepare simple dishes safely and hygienically, without using a heat source 	 know how to name and sort foods into the five groups in 'The Eatwell plate' know that everyone should eat at least five portions of fruit and vegetables every day how to prepare simple dishes safely and hygienically, without using a heat source how to use techniques such as cutting, peeling and grating 	 5. know that a healthy diet is made up from a variety and balance of different food and drink, as depicted in 'The Eatwell plate' 6. know that to be active and healthy, food and drink are needed to provide energy for the body 7. know that recipes can be adapted to change the appearance, taste, texture and aroma 8. know that different food and drink contain different substances – nutrients, water and fibre – that are needed for health 9. know how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source 10. know How to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking

