Progression in Design and Technology

Intent:

Design and technology (DT) prepares pupils to participate in tomorrow's rapidly changing technologies. They learn to think creatively to improve the quality of life. The subject calls for pupils to become creative problem solvers both as individuals and as members of a team. They must look for needs, wants and opportunities, responding to them by developing a range of design ideas for making products and systems. In their designing and making, pupils combine practical skills with an understanding of aesthetics, social and environmental issues, function and industrial practices. As they do so they reflect on, learn from and evaluate present and past design technology, its uses and effects. Through DT all pupils can develop innovation and become informed users of products.

The aims for Design and Technology are:

- Develop children's design and making skills, encouraging creativity and innovation.
- Develop confidence in using a range of tools, materials and components safely.
- Encourage children to develop a knowledge and understanding of technological processes, products and their manufacture, and their contribution to our society.

Implementation:

- 1 Curriculum drivers (the Arts and Possibilities) shape our curriculum breadth in Design and Technology. They are derived from an exploration of the backgrounds of our students, our beliefs about high quality education and our values. They are used to ensure we give our students appropriate and ambitious curriculum opportunities.
- 2 Cultural capital gives our students the vital background knowledge required to be informed and thoughtful members of our community who understand and believe in British values.
- 3 Curriculum breadth is shaped by our <u>curriculum drivers</u>, <u>cultural capital</u>, <u>subject topics</u> and our ambition for students to study the best of what has been thought and said by many generations of academics and scholars.
- 4 Our curriculum distinguishes between subject topics and 'threshold concepts'. Subject topics are the specific aspects of subjects that are studied.
- Threshold concepts tie together the subject topics into meaningful schema. The same concepts are explored in a wide breadth of topics. Through this 're-visiting' of the curriculum, students return to the same concepts over and over and gradually build understanding of them. In Design and Technology, these threshold concepts are; Master practical/technical knowledge, Design, make, evaluate and improve, and Take inspiration from design throughout history.
- Knowledge categories: These categories help students to relate each topic to previously studied topics and to form strong, meaningful schema. In Design and Technology these knowledge categories include: Food, Materials, Textiles, Electricals and Electronics, Computing, Construction, and Mechanics.
- 7. Cognitive science tell us that working memory is limited and that cognitive load is too high if students are rushed through content. This limits the acquisition of long-term memory. Cognitive science also tells us that in order for students to become creative thinkers, or have a greater depth of understanding they must first master the basics, which takes time.

- Milestones: For each of the threshold concepts three Milestones, each of which includes the procedural and Knowledge categories in each subject give students a way of expressing their understanding of the threshold concepts. Milestone 1 is taught across Years 1 and 2, milestone 2 is taught across Year 3 and 4 and milestone 3 is taught across Year 5 and Year 6.
- 9. <u>Cognitive Domains:</u> Within each Milestone, students gradually progress in their procedural fluency and semantic strength through three cognitive domains: basic, advancing and deep. The goal for students is to display sustained mastery at the 'advancing' stage of understanding by the end of each milestone and for the most able to have a greater depth of understanding at the 'deep' stage.

Progression through the Cognitive Domains				
Basic	Advancing	Deep		
Acquiring knowledge.	Applying knowledge.	Reasoning with knowledge.		
Knowledge is explicit and unconnected.	Knowledge is explicit and connected.	Knowledge is connected and tacit.		
Relying on working memory. Drawing on long-term memory, from memory to consider application.		Relies on long-term memory, freeing working memory to be inventive.		
Procedures processed one at a time with conscious effort.	Procedures being automatic.	Automatic recall of procedures.		
Understands only in the context in which the materials are presented.	Sees underlying concepts between familiar contexts.	Uses conceptual understanding in unfamiliar situations.		
New information does not readily stick. Schemes are limited.	New information is linked to prior knowledge. Schemas are strong.	Readily assimilates new information into rapidly expanding schemas.		
Struggles to search for problem solutions. Relies on means-end analysis.	Combines searching for problem solutions with means-end analysis.	Draws on a vast store of problem solutions.		
Requires explicit instructions and models.	Uses models effectively.	Prefers discovery approaches to learning.		

- 10 Key vocabulary move the learning from basic to deep and show progression through the milestones.
- 11 Pedagogical Content Knowledge and Strategies: As part of our progression model we use a different pedagogical style in each of the cognitive domains of basic, advancing and deep. This is based on the research of Sweller, Kirschner and Rosenshine who argue to direct instruction in the early stages of learning and discovery-based approaches later. We use direct instruction in the basic domain and problem-based discovery in the deep domain. This is called the reversal effect.
- 12 Also, as part of our progression model we use POP tasks (Proof of Progress) which shows our curriculum expectations in each cognitive domain.
- 13 Our curriculum design is based on evidence from cognitive science; three main principles underpin it:
 - Learning is most effective with spaced repetition.
 - Interleaving helps pupils to discriminate between topics and aids long-term retention.
 - Retrieval of previously learned content is frequent and regular, which increases both storage and retrieval strength.
- 14 In addition to the three principles we also understand that learning is invisible in the short-term and that sustained mastery takes time.
- 15. Our content is subject specific. We make intra-curricular links to strengthen schema.
- 16 Continuous provision, in the form of daily routines, replaces the teaching of some aspects of the curriculum and, in other cases, provides retrieval practice for previously learned content.

Milestone 1	Milestone 2	Milestone 3	
Key Stage 1	Lower Key Stage 2	Upper Key Stage 2	
	Food		
 Cut, peel or grate ingredients safely and hygienically. Measure or weigh using measuring cups or electronic scales. Assemble or cook ingredients. 	 Prepare ingredients hygienically using appropriate utensils. Measure ingredients to the nearest gram accurately. Follow a recipe. Assemble or cook ingredients (controlling the temperature of the oven or hob, if cooking). 	 Understand the importance of correct storage and handling of ingredients (using knowledge of micro-organisms). Measure accurately and calculate ratios of ingredients to scale up or down from a recipe. Demonstrate a range of baking and cooking techniques. Create and refine recipes, including ingredients, methods, cooking times and temperatures. 	
	Materials		
 Cut materials safely using tools provided. Measure and mark out to the nearest centimetre. Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling). Demonstrate a range of joining techniques (such as gluing, 	 Cut materials accurately and safely by selecting appropriate tools. Measure and mark out to the nearest millimetre. Apply appropriate cutting and shaping techniques that include cuts within the perimeter of the material (such as slots or cut outs). Select appropriate joining techniques. 	 Cut materials with precision and refine the finish with appropriate tools (such as sanding wood after cutting or a more precise scissor cut after roughly cutting out a shape). Show an understanding of the qualities of materials to choose appropriate tools to cut and shape (such as the nature of fabric may require sharper scissors than would be used to cut paper). 	

hinges or combining materials to strengthen).					
	Textiles				
Shape textiles using templates.	Understand the need for a seam allowance.	Create objects (such as a cushion) that employ a seam allowance.			
 Join textiles using running stitch. Colour and decorate textiles using a number of techniques (such as dyeing, adding sequins or printing). 	 Join textiles with appropriate stitching. Select the most appropriate techniques to decorate textiles. 	 Join textiles with a combination of stitching techniques (such as back stitch for seams and running stitch to attach decoration). Use the qualities of materials to create suitable visual and tactile effects in the decoration of textiles (such as a soft decoration for comfort on a cushion). 			
	Electricals and Electronics				
Diagnose faults in battery operated devices (such as low battery, water damage or battery terminal damage).	Create series and parallel circuits	Create circuits using electronics kits that employ a number of components (such as LEDs, resistors, transistors and chips).			
Computing					
Model designs using software.	Control and monitor models using software designed for this purpose.	Write code to control and monitor models or products.			

	Construction			
Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products.	 Choose suitable techniques to construct products or to repair items. Strengthen materials using suitable techniques. 	Develop a range of practical skills to create products (such as cutting, drilling and screwing, nailing, gluing, filing and sanding).		
Mechanics				
Create products using levers, wheels and winding mechanisms.	Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears).	 Convert rotary motion to linear using cams. Use innovative combinations of electronics (or computing) and mechanics in product designs. 		
	Design process			
 Design products that have a clear purpose and an intended user. Make products, refining the design as work progresses. Use software to design. 	 Design with purpose by identifying opportunities to design. Make products by working efficiently (such as by carefully selecting materials). 	 Design with the user in mind, motivated by the service a product will offer (rather than simply for profit). Make products through stages of prototypes, making continual refinements. 		

Use prototypes, cross-sectional diagrams and computer aided designs to represent designs.
ation
• Combine elements of design from a range of inspirational designers throughout history, giving reasons for choices. • Create innovative designs that improve upon existing products. • Evaluate the design of products so as to suggest improvements to the user experience.
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	 Technology Computer Design Model Programme 	 Monitor Control Enhance a given product Circuit Adding a circuit Improve their product Electrical system Switch Bulb Motor Wire
Note Items in green are subject-specific		
vocabulary.		
How do we prepare children for KS3?	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 domestic and local contexts [for example, the home, health, leisure and culture], and industrial contexts [for example, engineering, manufacturing, construction, food, energy,	During Design and Technology networks we discuss transition and projects which may aid transition. Address misconceptions early before they reach secondary- these can be done through re-visits

	agriculture (including horticulture) and fashion]. As part of their work with food, pupils should be taught how to cook and apply the principles of nutrition and healthy eating. Instilling a love of cooking in pupils will also open a door to one of the great expressions of human creativity. Learning how to cook is a crucial life skill that enables pupils to feed themselves and others affordably and well, now and in later life.	
New EYFS ELG	Communication and Language - Understand 'why' questions, like: "Why do you think the caterpillar got so fat?" Understand a question or instruction that has two parts, such as "Get your coat and wait at the door" Be able to express a point of view and to debate when they disagree with an adult or a friend, using words as well as actions. Physical Development- Make healthy choices about food, drink, activity and toothbrushing.	Personal, Social and Emotional development — Give focused attention to what the teacher says, responding appropriately even when engaged in activity, and show an ability to follow instructions involving several ideas or actions. Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. Manage their own basic hygiene and personal needs, including dressing, going to the toilet and understanding the importance of healthy food choices. Communication and Language — Learn new vocabulary. Ask questions to find out more and to check what has been said to them. Articulate their ideas and thoughts in well-formed sentences. Describe events in some detail. Use talk to work out problems and organise thinking and activities.

Use large-muscle movements to wave flags and streamers, paint and make marks.

Choose the right resources to carry out their own plan. For example, choosing a spade to enlarge a small hole they dug with a trowel.

Use one-handed tools and equipment, for example, making snips in paper with scissors.

Use a comfortable grip with good control when holding pens and pencils.

Mathematics -

Make comparisons between objects relating to size, length, weight and capacity.

Combine shapes to make new ones – an arch, a bigger triangle etc.

Understanding the world-

Use all their senses in hands-on exploration of natural materials.

Explore collections of materials with similar and/or different properties.

Talk about what they see, using a wide vocabulary.

Explore how thingswork.

Talk about the differences between materials and changes they notice.

Explain how things work and why they might happen.

Use new vocabulary in different contexts.

Physical Development

Know and talk about the different factors that support their overall health and wellbeing:

- regular physical activity
- healthy eating
- -toothbrushing

Hold a pencil effectively in preparation for fluent writing – using the tripod grip in almost all cases.

Use a range of small tools, including scissors, paintbrushes and cutlery.

Begin to show accuracy and care when drawing.

Understanding the world-

- Explore the natural world around them.
- Describe what they see, hear and feel while they are outside.

Expressive Art and Design -

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.

Explore and talk about different forces they can feel.

Expressive Art and Design —

Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park.

Explore different materials freely, in order to develop their ideas about how to use them and what to make.

Develop their own ideas and then decide which materials to use to express them.

Join different materials and explore different textures.