

DT Yearly Coverage, Progression and Planning

Nursery		Reception		Year 1		Year 2		
<p>Explore different materials freely to develop their ideas about how to use them and what to make.</p> <ul style="list-style-type: none"> Join different materials, beginning to explain choice linked to shape and texture / properties. Use various construction materials, e.g. joining pieces, stacking vertically and horizontally, balancing, making enclosures and creating spaces. Use scissors accurately. Begin to use cutlery accurately. With supervision, use staplers and hole punches safely. Use masking tape, Sellotape (and cutter), elastic bands, Pritt stick and PVA glue accurately. Begin to use treasury tags. 	<p>Develop their own ideas through experimentation with a diverse range of materials.</p> <ul style="list-style-type: none"> Increasingly choose more appropriate materials for the job, e.g. cotton reels / lids for wheels, wool / thread for hair. Join different materials explaining why they have chosen a specific fixing. Purposefully choose construction materials for a specific job. <p>Accurately use a range of small tools - scissors, cutlery, stapler, hole punch, trowel.</p> <ul style="list-style-type: none"> Know how to use an age-appropriate hammer, screws, nails, hand drills, hand vice and a saw safely (goggles and gloves). ? Use a range of fixings explaining choices – staples / stapler, hole punch, treasury tags, split pins, different glues, Sellotape, masking tape. 	Autumn 2	Week 1	<p>Block A - Mechanisms</p> <p>How can you make a picture move?</p> <p>Explore sliders and the forces used. I know what push, pull and linear are.</p>	Autumn 1	Week 1	<p>Block A - Textiles</p> <p>How can you repurpose an item of clothing?</p> <p>Sort fabrics with your own criteria. Create a square template out of card.</p>	
			Week 2	I can make a slider and evaluate how effective it is		Week 2	I know how to use overstitch to fasten two pieces of fabric together	
			Week 3	I can construct a greetings card that has a movable image.		Week 3	I know how to make a template to create a quilt effect, fastening smaller pieces of fabric together	
			Week 4	<p>Block B - Structures</p> <p>How can you stop a building toppling over?</p> <p>Explore building a tower and consider different materials. I know how to change the base structure to make it more stable</p>		Week 4	<p>Block B - Food and Nutrition</p> <p>What do we mean by healthy?</p> <p>I can identify the importance of vegetables in the diet and explain what vitamins are. I can use the claw, ribboning and bridge methods to create a jam jar salad. Taste and evaluate</p>	
			Week 5	I know how to join materials in different ways		Week 5	I can use the term 'free range'. Can you explain why we should think about animal welfare within food production? Can identify what protein does within our bodies. Create a tortilla quiche. Taste and Evaluate.	
			Week 6	<p>Create a design based on knowledge of what makes a tower stable.</p> <p>I know how to create a freestanding structure that stands on its own foundation or base</p>		Week 6	Can explain and discuss the term processed within food production. Explore the difference between wholemeal and white pitta bread. Make pitta crisps. Taste and evaluate.	
		Spring 1		Week 1	<p>Block C - Food & Nutrition</p> <p>How does food affect your senses?</p> <p>Can identify the five senses. Can explain that vegetables contain vitamins and minerals that the body needs</p>	Spring 1	Week 1	<p>Block C - Mechanisms</p> <p>Are bigger wheels always better?</p> <p>Can find differences and similarities between different wheeled objects Can explain the difference between a fixed and rotating axle</p>
				Week 2	Can recall key facts about the nutritional value of raw vegetables		Week 2	Can identify the advantages and disadvantages of using multiple axles, large wheels or small wheels
				Week 3	Can state preferences with reasons and suggest ways their dish could be improved		Week 3	Can make informed decisions about size of wheels to use and can explain reasoning.
				Week 4	<p>Block D - Understanding Materials</p> <p>Can you build with bread? Identify and sort materials</p>		Week 4	<p>Block D - Understanding Materials</p> <p>How can you waterproof a hat?</p> <p>Can identify features and materials that make clothing suitable for wet weather. Can explain and demonstrate a fair test</p>

<ul style="list-style-type: none"> ▪ With supervision, begin to use an age-appropriate hammer and screws (goggles and gloves). 			Week 5	Can you explain why some materials are better than others: building, heat changes, adjusting consistency		Week 5	Can explain the importance of waterproofing Can identify features that make boots fit for purpose Can conduct a fair test systematically
			Week 6	Can you explain choices of materials, changes to properties and evaluate		Week 6	Can explain how the properties of paper change when it is folded Can carry out a fair test and draw conclusions from the results
	Summer 1		Week 1	Block E - Textiles Can two squares of fabric keep you warm? Can thread a needle (darning) and use running stitch to outline.		Week 1	Block E - Food and Nutrition How healthy is your food? Can identify some examples of foods that are processed or ultra processed. Can explain why ultra-processed foods are unhealthy. Make and eat overnight oats, describe textures and flavours and suggest improvements
			Week 2	Can describe some properties of different threads and make comparisons between them. Design a handwarmer		Week 2	Can identify healthy ways of preparing foods. Can make predictions about how appearance and texture will change as a result of cooking. Make and taste potato rosti.
			Week 3	Apply sewing skills to make a handwarmer. Can you identify strength and areas of improvement?		Week 3	Can explain what fibre, protein and calcium are important in our diets. Can use knife skills with accuracy. Make and eat wholemeal wraps, state preferences and suggested changes
			Week 4	Block F - Food and Nutrition Why are vegetable the best? Can explain that vegetables contain vitamins and minerals that the body needs. Make vegetable dips then use adventurous vocabulary to describe flavour and texture		Week 4	Block F - Structures How strong is a piece of paper? Can take a systematic approach to testing materials and methods. Explain and record results drawing reasonable conclusions
			Week 5	Use various methods to prepare pitta pockets. Can explain what they like and dislike about food they have made		Week 5	Can use a combination of folded and flat cards to create a multi-storey tower. Can comment why different shapes created affect the stability of a structure
			Week 6	Can use a systematic approach and demonstrate dexterity to coat vegetables in flour, beaten egg and breadcrumbs.		Week 6	Design and make a structure adhering to set criteria. Can identify strengths and weaknesses and suggest what changes should be made and why
					Summer 1		

KS1 LINKS TO THE NATIONAL CURRICULUM

Year 1		Block A Mechanisms How can you make a picture move?	Block B Structures How can you stop a building toppling over?	Block C Food & Nutrition How does food affect your senses?	Block D Understanding Materials Can you build with bread?	Block E Textiles Can two squares of fabric keep you warm?	Block F Food and Nutrition Why are vegetable the best?
Year 2		Block C Mechanisms Are bigger wheels always better?	Block F Structures How strong is a piece of paper?	Block B Food and Nutrition What do we mean by healthy?	Block D Understanding Materials How can you waterproof a hat?	Block A Textiles How can you repurpose and item of clothing?	Block E Food and Nutrition How healthy is your food?
Design	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 and communication technology	✓	✓	✓	✓	✓	✓
Make	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 ingredients, according to their characteristics	✓	✓	✓	✓	✓	✓
Evaluate	explore and evaluate a range of existing products	✓	✓		✓	✓	
	evaluate their ideas and products against design criteria	✓	✓		✓	✓	
Technical knowledge	build structures, exploring how they can be made stronger, stiffer and more stable		✓		✓		
	explore and use mechanisms [for example, levers, sliders, wheels and axles] in their products	✓					
Cooking & Nutrition	use the basic principles of a healthy and varied diet to prepare dishes			✓			✓
	Understand where food comes from			✓			✓

