



Homefield Primary Curriculum – DT Sequence Overview



DT						
		Structures/Fine Motor	Scissor Skills	Cooking		
R	Aut	<p>Junk Modelling (links to Art)</p> <p>Children will learn the skills of attaching objects when junk modelling using glue, tape or staples. They will explore rolling card, using their cutting and joining skills to build collaborative castles and paper chains. The skill of paper folding to create a concertina will be taught and plenty of opportunities will be given for them to practise these skills independently.</p>	Children learn how to hold scissors correctly and practise snipping paper. They learn how to make a continuous cut and then a cut that follows a line	Children will be taught how to hold cutlery correctly and how to use them to cut safely. They practise on play doh with plastic cutlery in role play areas and every lunchtime		
	Spr	Children will build upon previous joining skills taught – glue, tape, staples, treasury tags, split pins and paper clips. They will explore using these techniques to make a 2D caterpillar/5 Little Ducks	Children learn how to cut out a shape, following a line and turn the paper so the scissors remain pointing away from the body	<p>Ginger Biscuits</p> <p>Children work together to mix a gingerbread dough, having a go at stirring and kneading the mixture. They learn how to use a rolling pin and cookie cutter to create gingerbread men shaped biscuits. They make simple icing, stirring and spooning it onto the biscuits and adding decorations</p>		
	Sum	Children will be taught how to use pegs to join things together, employing a pincer grip to open and close them. They will explore den building with large pieces of fabric, joining with pegs as well as practising doing zips and button fastenings	Children will learn how to cut along different types of lines such as zig-zags and wavy lines.			
		Construction/Structures	Mechanical Systems <small>[for example, gears, pulleys, cams, levers and linkages]</small>	Electrical Systems <small>[for example, series circuits incorporating switches, bulbs, buzzers and motors]</small>	Textiles	Cooking and Nutrition
1	Aut		<p>Story Boxes – Levers and Sliders</p> <p>Children will explore how simple levers and sliders work. They will create designs for a story box with moving characters and add a lever or slider to create their moving part</p>			
	Spr	<p>Construction Kits – Bridges</p> <p>Children will explore making bridges using a range of construction kits, trying to make different shapes and thinking about which kits are more appropriate and which are sturdier. They will consider how to make a paper bridge and explore folding and adding things to make a more stable structure.</p>				
	Sum				<p>Puppets (Links to Art)</p> <p>Children make simple fabric puppets after looking at the work of Wendy Tsao. They will learn how to sew a bead/button on to fabric and use this skill to make fabric stick puppets from their own designs.</p>	<p>Fruit Kebabs</p> <p>Children will look at the sections of an Eatwell plate and discuss what a 'healthy diet' means. They will be taught how to do the bridge cut and will use this to cut up fruit. Children will learn basic hygiene rules of preparing food and employ these when designing and preparing a fruit kebab.</p>
	Aut	Windmills			Xmas Decorations (Links to Art)	



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2		Children will explore a range of ways to create moving mechanisms with a structure, axle and turbines. They will revisit paper strengthening skills from Year 1 and use these skills to design and make a windmill to a given design criteria		Children look at existing Christmas decorations and are taught to join two pieces of fabric with a simple running stitch. They will employ applique techniques taught in Year 1 to embellish their decoration.	
	Spr				
	Sum				Vegetable Pitta Pizzas Children will explore a range of existing pizza products and consider healthy choices for pizza toppings. A chef from a local pizza restaurant will demonstrate making dough and the skills required. Children will revisit the bridge cut and learn how to grate and spread so they can make choices of how to prepare and add ingredients on their pitta pizza design.
3	Aut				Soup Making Children recap science knowledge – the eat well plate. They recap how to use knives to chop safely, measure ingredients, peel, grate and follow basic recipes. Ingredients are grown in our allotment, with a focus on healthy eating and growing local seasonal produce. They learn about boiling and simmering a stock and the soup is sold at the Christmas Fayre.
	Spr	Tower Making After analysing existing towers and the structure of these, pupils use paper straws to construct a tower with a strong base and spire on top. Different joining techniques are practised and children use a variety of these while making their structure in small groups. A competitive element is also included whereby children are challenged to create the strongest, tallest tower.	Cams Card – Easter Pupils are introduced to cam components and construct their own cam mechanism in small groups, problem solving along the way. Focus is on creating linear movement to produce a product that moves up and down when a handle is rotated; they then design and make their own cam mechanism Easter card and finish by evaluating the functionality of the cam		
	Sum				Purse Making (Links to Art)



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					After exploring existing products, children design and make their own purse/wallet. Children will build on previous hand sewing skills of running stitch and learn how to overstitch. They will use these stitches to construct their purses and add a button to fasten it.	
4	Aut	<p style="text-align: center;">Christmas Lanterns</p> <p>Having previously built a structure using paper straws, pupils now manipulate and cut willow to create a variety of 3D structures. As well as increasing the scale of their final products, children need to consider the functionality of their final design in order to make an attractive lantern. After completion, these are celebrated and enjoyed on display at the Christmas fayre.</p> <p>Coding element of DT (control monitor and evaluate) Computing teaching built into the computing curriculum where they plan to either control the lights or create a sound to accompany the lantern. (They will code this).</p>		<p style="text-align: center;">Steady Hand Game</p> <p>Applying their understanding of series circuits learnt in science, children design and make a fully functioning steady hand game. After evaluating a range of existing products, children perform practical tasks including joining and finishing.</p>		
	Spr				<p style="text-align: center;">Bean Bag Toy (Links to Art)</p> <p>Children will develop their hand sewing skills from KS1. They will revise the basic stitches for joining two pieces of fabric together: running stitch and over stitch. Children will be taught how to cross stitch and will use this to embellish their fabric with their initial. They will decide which stitches and fillings to use to make their own beanbag.</p>	<p style="text-align: center;">World Cuisine - Stir Fry</p> <p>Thai restaurant owner demonstrates how to stir fry vegetables. Children will use the knife skills learnt previously as well as the bridge hold and learn to fry safely. They will also learn to boil noodles safely. A focus will be on knowledge of key spices in Thai cookery – building on their knowledge of seasoning</p>
	Sum					<p style="text-align: center;">World Cuisine – Curry</p> <p>An Indian restaurant owner will demonstrate making a vegetarian curry allowing children to explore different spices and sauce making techniques. Children will learn about Indian spices and how to make a sauce for the base of</p>



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						the curry. They will use the skills learnt previously to boil rice safely.
5	Aut					<p style="text-align: center;">Let's Cook Meat</p> <p>Children will be introduced to cooking with meat – looking at hygiene around handling, storing and cooking meat (linking to microbes in science). Children will recap frying skills to brown off onions and meat before combining seasonal veg and potatoes to create a stew.</p>
	Spr		<p style="text-align: center;">Cams Toys</p> <p>After successfully acquiring the skills to create a simple cams mechanism in Year 3, children will recap and apply this understanding to create 3D cams toys. Emphasis will be on incorporating rotational and linear movements within a cardboard structure, which will prepare children for a project made out of wood they undertake at secondary school. Science link – levers, pulleys and gears.</p>			
	Sum				<p style="text-align: center;">Draw String bags– (Links to Art) Sewing Machines</p> <p>Children will be introduced to the sewing machines and learn the names and locations of the basic parts. They will find out how to thread the machine, how to do a simple straight stitch and how to turn corners. They will use these skills and previously taught hand sewing stitches, to sew two pieces of fabric together and create a channel to make a simple drawstring bag.</p>	
6	Aut	<p style="text-align: center;">Bridges -Brunel</p> <p>Children will develop their understanding of structural engineering by examining and recreating a variety of bridges. This unit incorporates the use of forces to join elements together, as well as greater application of physical joining techniques to strengthen, stiffen and reinforce structures. During this unit, children also undertake a residential trip to Bristol, where they visit the Clifton Suspension Bridge, as well as exploring</p>				<p style="text-align: center;">Ready, Steady, Cook</p> <p>Children recap the main skills and techniques learnt so far: chopping, boiling, simmering, frying, making sauces and handling meat hygienically. Being presented with a range of produce, they plan a healthy meal to include a carbohydrate, protein and veg, employing the skills learnt to prepare and cook it.</p>



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		the different original design proposals at the visitor's centre.				
	Spr					
	Sum	<p align="center">Homefield Festival of Speed (Goblin Cars)</p> <p>Children will be taught how to assemble a variety of components to create a complex, working electric vehicle; a Goblin Car. This will involve the practical application of wiring diagrams, as well as the procedural knowledge needed to follow technical instructions. As well as the essential DT knowledge, skills, concepts and vocabulary contained within this project, the Homefield Festival of Speed incorporates many different areas of the curriculum and has a whole school emphasis.</p>				