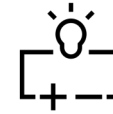


YEAR SIX

D&T Overview



	Autumn Term	Spring Term	Summer Term
Area of D&T	 Cooking & Nutrition Culture & Seasonality 7-8 hours	 Structures Frames 7-8 hours	 Electrical Systems <i>More Complex Switches & Circuits</i> 7-8 hours
Design Brief	 Product : Italian Pizza  User: Pupils  Purpose: Celebrating food from different cultures  Inspire Text:	 Product : Bird Hide  User: Twitch  Purpose: Watching birds  Inspire Text: Twitch M.G Leonard 	 Product : Security Alarm  User: Pupils  Purpose: Protect valuable artwork  Inspire Text: The Guggenheim Mystery Robin Stevens
Materials	Example foods to taste, equipment and utensils such as: knives, chopping board, weighing scales, measuring jugs, bowls, baking trays, spoons – various sizes, parchment paper, plastic film.	Art straws; square-section timber; corner cards; card triangles; PVA glue; glue guns; masking tape; assorted fabric / material	Batteries, crocodile leads, bulbs, bulb holders, buzzers, light emitting diodes (LEDs), micro switches, reed switches and magnets, light dependent resistors (LDRs), wire, automatic wire strippers, masking tape, construction materials and tools as required
Knowledge & Techniques	Children investigate foods from different cultures a range of foods and evaluating their flavours. They will select and use a range of cooking utensils, learn about food hygiene and develop their food preparation skills as well as the use of ovens and time management when cooking.	Structure design choices; strengthening shapes with triangulation; straw joining techniques (creasing & inserting; flattening & gluing; strip seal; masking tape join.	Understand and use electrical systems in their products. Know and use technical vocabulary relevant to the project. Problem-solving, teamwork, negotiation, consumer, awareness, organisation, motivation, persuasion, leadership, perseverance.
Science Links	Science - Animals including humans: Identify that humans need the right types and amount of nutrition from what they eat.	Living things and their habitats: Pupils to create a bird hide from knowledge of a birds natural habitat and what it would require in a bird hide.	Electricity: Understanding the value and usage of different electrical components. Understanding the difference between series and parallel circuits,
Key Vocabulary	Texture, taste, sweet, sour, hot, spicy, appearance, smell, preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/ varied diet.	frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent design brief, design specification, prototype, annotated sketch, purpose, user, innovation, research, functional	Series circuit, parallel circuit, names of switches and components, input device, output device, system, monitor, control, program, flowchart, function, innovative, design specification, design brief, user, purpose