

Design and Technology Curriculum Overview

Aim high, believe; Fly high, achieve.

Year Group	Autumn	Spring	Summer
EYFS	Across the year EYFS will: -Develop plan and communicate their ideas by: Working with materials and media in across the curriculum. -Use appropriate tools, equipment, materials and components to make products by modelling ideas using a variety of materials, including construction kits. -Understand the importance of a balanced diet and that all food comes from plants or animals. -Evaluate processes and products by talking about their design ideas and what they are making.		
Year 1	Free-standing structures :playgrounds	Food: Fruit and vegetables- (salads)	Sliders and Levers:
	Cut, fold, join, fix, weak, strong	Fruit, vegetables, soft, juicy, crunchy, sticky, smooth, sharp, crisp, sour hard, flesh, skin, seed pip, core, slicing, peeling, cutting, squeezing, healthy diet, choosing, ingredients, planning, tasting, arranging	Mechanism, lever, slider, slot, pivot, guide/bridge, masking tape, fastener, pull, push, down, straight, work, design, evaluate, purpose,
Year 2	Textiles-Templates and joining	Food: Making Cheese	Wheels and Axles Design and Make a fire engine
	Pattern, mark out, join, decorate, running stitch, needle, fabric	healthy diet, choosing, ingredients, planning, tasting, arranging	Wheel, axel, fixed, free, design, make, cutting, joining, hacksaw, vice, dowel, body, cab, shaping
Year 3	Shell structures: Christmas Gift boxes	2D to 3D textiles: Stone Age Tunic	Levers and linkages: Catapults
	Shell, structure, net, marking out, material, joining, three dimensional, stiff	Fastening, compartment, zip, finishing technique, function, prototype, back stitch, felted, woven, knitted, bonded, seam allowance	Loose pivot, fixed pivot, system, input, process
Year 4	Food: Healthy and varied diet (Vikings)	Pneumatics	Simple circuits and switches
	Texture, taste, appearance, preference, greasy, moist, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested	components, fixing, attaching, tubing, syringe, plunger, split pin, paper fastener pneumatic system, input movement, process, output movement, control, compression, pressure, inflate, deflate, pump, seal, air-tight linear, rotary, oscillating, reciprocating	User, fault, toggle switch, insulator, conductor, battery holder, crocodile clip Series circuit, connection, push-to make switch, push-to-break switch, innovative, appealing, control box, input device, output device, system
Year 5	Frame Shelters - Air raid shelters: What are structures and how can they be made stronger?	Mechanical Systems - Gears and Pulleys: How do gears and pulleys allow force to be distributed?	Textiles: Combining fabric shapes
	Reinforce, triangulation, stability, temporary, permanent, prototype, innovation, functional, design brief	Pulley, gear, driver, follower, rotation, motor, belt, spindle, motor, circuit, switch, ratio, transmit, annotated drawings, exploded diagrams, functionality	Applique, annotate, evaluate, innovation, functionality, renewable, authentic, chain stitch
Year 6	Food: Celebrating culture and seasonality	Cams: How do cams affect movement?	Electricity: More complex switches
	Ingredients, yeast, dough, wholemeal, unleavened, baking soda, spice, herbs, carbohydrate, sugar, fat, protein, vitamins, nutrients, gluten, allergy, intolerance, savoury, seasonality, pour, mix, kneed, whisk, beat, combine, fold, rubbing in	cam, snail cam, off-centre cam, peg cam, pear shaped cam follower, axle, shaft, crank, handle, housing, framework rotation, rotary motion, oscillating motion, reciprocating motion input movement, process, output movement	Parallel circuit, light emitting diode, monitor, flowchart, design specification, reed switch, tilt switch Light dependent resistor, interface control, micro switch, latching switch