

Ruskington Chestnut Street Design Technology Curriculum Overview



Long Term Plan 2025 - 2026

Why this why now: There are opportunities for D&T engagement across all seven areas of learning with EYFS and effective D&T practice should not be seen as either an exhaustive list or statutory requirements. Our EYFS curriculum is developed using non-statutory guidance from 'Development Matters' (2000) and the statutory framework for the early years foundation stage (2021) produced by the DfE.					
FS1	In continuous provision a wide range of natural, found and collage materials are available indoors and outdoors to investigate and use in large and small creations. We have a variety of materials in continuous provision to explore different ways of joining. Artist, designer and architectural books and photos used to stimulate discussion, inspire, and challenge. Throughout the year our children follow a structured progression for woodwork in our Forest Area. The teaching of skills and safety is in small group initially using corrugated card with tees, nails, and hammers, progressing to using tools with balsa and pine. Children explore joining, cutting, drilling, and creating.				
FS2	Make bread linked to learning around where bread comes from.	Camping shoes for Mr Doud – Elves and the shoemaker or sewn puppets. Designing and making shoes linked to literacy learning. The children begin to develop construction with a purpose in mind Children explore joining textiles in different ways (glue, tape, screws, etc)	Children use the outdoor area daily to create a wide range of structures including houses, cars, sleighs, shops, etc. Children are encouraged to design, make and evaluate their structures.	Children explore a wide range of resources such as screws, bolts, tools, torches, phones, beebots, vehicles, wind up cars, push and pull toys, etc to investigate how things work.	
	Vocabulary Vocabulary linked to fruit names and ingredient names. chop, cut, slice, grate, knife, board, push,	Vocabulary Vocabulary linked to materials. Cut, stick, pull, push, tear, thread, screw, spin, design, make, create, adapt,	Vocabulary Wood, pipe, guttering, wire, design, make, create, evaluate, adapt, base, sides, foundation, structure,	Vocabulary Vocabulary linked to directions. Push, pull, spin, turn, open, close, force, move.	
Why this why now: Within our units of work from Year 1 to Y6 they will all follow the six integrated principles of Design Technology: User, Purpose, Functionality, Design Decisions, Innovation, Authenticity.					
Terms used: CAD: Computer Aided Design; POP: Projects on a Page resource					
	Food	Textiles	Structures	Mechanisms Mechanical systems	Electrical systems
Year 1/2	Why this why now Builds on the skills from EY making the fruit kebabs, children	Why this why now: Binka is an age appropriate sewing material enabling the children to learn stitching		Why this why now Children use a wood which allows them to cut and shape to create	

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	learn more about preparing food, wider range of seasonal fruit			the model of a trailer for the site manager.	
	Fruit smoothies – chopping, peeling, slicing Wider variety of fruits from EYFS (summer term)	Binka sewing – Mother’s Day cards (Spring term)		Jez’s Trailer – wheels and axles Use a block of wood (balsa) (autumn term)	
	Vocabulary: fruit names..... Equipment: chopping board, knife, peeler, squeezer, grater, pith, nutrients, skin, seed, pip, ingredients, design, evaluate, sour, sweet	Vocabulary: Names of existing products, tools needle, thread, wool, template, pattern, finish, quality, mock up, components		Vocabulary: Slider, lever, pivot, slot, bridge, guide, card, masking tape, paper, fattener, joining, pull, push, up, down, straight, curved, forwards, backwards	
Year 3/4	Why this why now Offers a contrast to the fruit smoothies and builds on the food preparation skills from Y1/2		Why this why now Builds on the wood skills of ‘Jez’s trailer’		Why this why now Incorporates science work on electricity
	Seasonal Stews (spring term)		Money boxes (CAD) (summer term)		Steady hand game – Christmas fair (autumn term)
	Vocabulary : Names of vegetables, techniques, utensils, texture, processed, simmering, boiling, stock,		Vocabulary : Hacksaw, hammer, nail, cutting board, measure, bench hook, drill, drill bit, bungee, cube, prototype, art straws, paint, design, evaluate		Vocabulary: Series circuit, control, program, flow chart, battery, wires, fault, connection, conductor, insulator.
Year 4/5	Why this why now Making bread for the Y3 Hot Dogs Connections with the science reversible and irreversible changes	Why this why now Builds on sewing skills learnt in KS1	Why this why now Continues to enhance the wood skills, shaping, constructing and use of tools.		
	Bread – POP Making bread 6 essentials Different seasonings, techniques (plaiting) (autumn term)	Sunglasses case with drawstring (summer term)	Cam toy (CAD) Construct with woodstrip (spring term)		
	Vocabulary :	Vocabulary :	Vocabulary :		

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	Dough, yeast, bran, flour, wholemeal, unleavened, spice, herbs, intolerance, savoury, seasonality, food groups, Bread techniques: rise, roll, knead, prove	Wadding, reinforce, right side wrong side, hem, pinking shears, iron transfer, annotate, innovate, prototype, purpose, authenticate	Cam, snail cam, off-centre cam, peg cam, pear shaped cam, follower, axel, shaft, crank, handle, housing, framework, rotation, rotary motion, oscillating motion, reciprocating motion, annotated sketches, exploded designs, input, process, output motion		
Year 5/6	Why this why now		Why this why now	Why this why now	
	Compliments the food making from the previous years and units of work.		Continues to enhance the wood skills, shaping, constructing and use of tools to more sophisticated designs and finished pieces.	Continues to enhance the wood skills, shaping, constructing and use of tools to more sophisticated designs and finished pieces with the use of computing programming.	
	Fair trade biscuits Design their own How are they going to make them, research how to make a quality biscuit, children personalise. (autumn term)		Make a buggy (CAD) (summer term)	Fairground Computer control Gears and pulleys (spring term)	Make a buggy (Summer term)
Vocabulary : Mixture,		Vocabulary : Junior hacksaw, vice, hand drill, wire strippers, g clamp, elastic bands, gears, pulleys, rotation, drive belt.	Vocabulary : Junior hacksaw, vice, hand drill, wire strippers, g clamp, elastic bands, gears, pulleys, rotation, drive belt Series circuit, parallel circuit, switch, latching, push to make switch, push to break, push to stop, tilt switch, control box, micro switch, resistor, input, output, system, monitor, control, program, flow chart	Vocabulary : Series circuit, parallel circuit, switch, latching, push to make switch, push to break, push to stop, tilt switch, control box, micro switch, resistor, input, output, system, monitor, control, program, flow chart	