

DESIGN AND TECHNOLOGY

CURRICULUM MAP 2025 - 2026

	AUTUMN	SPRING	SUMMER			
Approach	English Martyrs' approach to Design and Technology is a process where ideas are generated, externalised, communicated and evaluated by action. This process in DT equips our pupils with the skills to become creative and reflective individuals, who can be resilient problem solvers. We apply the following six principles in each project: who the <i>user</i> is, what the <i>purpose</i> of the products are, that it functions effectively, the <i>product</i> must be innovative, pupils can make their own design decisions and that their product is authentic. We also ensure that each DT project includes <i>investigative and evaluative</i> activities (IEAs), focused tasks (FTs) and a <i>design</i> , <i>make</i> and <i>evaluate</i> element (DMEA).					
EARLY YEARS	Structures, Mechanisms and Textiles Children in EVES are offered a range of enpertunities to develop a range of skills in many strands of DT throughout engagement agrees all seven are					
TEARS	Children in EYFS are offered a range of opportunities to develop a range of skills in many strands of DT throughout engagement across all seven areas of learning. These align with guidance from 'Development Matters' (2023) and the Statutory Framework for the Early Years Foundation Stage (2023). The					
	examples below are not exhaustive.					
	Mechanisms	Structures	Textiles			
	Make a moving Easter egg card (and other cards) – hinge and lever mechanism	Constructing dens Using Lego and Mobilo to construct	Sock puppets – (link with Literacy text – Bringing the Rain to Kapiti Plain)			
	Exploring different fastenings – (eg. nuts and bolts)	Providing a range of non-fiction books related to machines, vehicles, etc	Weaving, lacing boards, sticking and cutting			
	Communicating correct technical vocabulary for different mechanisms and forces (eg. wheel, force, pull, push, up, down, wedge, slope, lever, axle)	Graphical instructions for building block structures to support graphical communication	Exploring and understanding that there is different media that can be combined to create new effects			
	Cooking and Nutrition					
	Cooking and nutrition is covered throughout the year by linking with our half term topics. Weekly provision is planned to give children the opportunity to explore cooking and nutrition through teaching of the EYFS curriculum. For example in Reception children prepare and assemble fruit kebabs, in EYFS children learn about where food comes from and undertake exploration of food linking to celebrations and festivals, EYFS children explore measuring (standardised and non-standardised) and through imaginary play EYFS children might explore food for a party or dinner.					
YEAR 1	Textiles	Mechanisms	Cooking and Nutrition			
Problem	How can we create a puppet linked to a character from a story we are reading?	How can we create a moving story book to entertain our class?	How can we prepare and assemble a healthy summer salad/s for a picnic using produce from our garden and/or purchased from the shop?			

	Link: Literacy – Traditional Tales and other stories (Beegu, Lost and Found and Yeti and the Bird), Art – observational drawings, colour, pattern, texture, shape and experimenting with control marks, Science – use of everyday materials Key knowledge: templates and joining techniques (gluing, stapling, sewing)	Link: Literacy – traditional tales - using correct technical vocabulary, Religion – families and celebrations, Maths – position, direction, and movement, using standard and non-standard measures, Key knowledge: sliders and levers *using Kapow	Link: Science – seasonal changes (summer) and plants, Computing – using technology to research, Maths – measuring and counting, Literacy – Jack and the Beanstalk, and The Mango Tree Skills and knowledge: preparing fruit and vegetables, use the basic principles of a healthy and varied diet to prepare dishes, understand where food comes from. Other skills – peeling, cutting, slicing, grating, squeezing, and mixing
YEAR 2	Structures	Mechanisms	Cooking and Nutrition
Problem	How can we create a freestanding swing structure using different materials?	How can we create a Fairground Wheel?	How can we prepare a healthy fruit smoothie?
	Link: Reading – toys and games (non-fiction), Science – use of everyday materials, History – toys, Art – quick drawings, Maths – shapes, measuring Key knowledge: freestanding structures, 2-D shape to 3-D shape	Link: Science - forces Key knowledge: wheels and axles *using Kapow	Link: PSHE & PE – healthy eating, lifestyle, diet. Skills and knowledge: preparing fruit and vegetables, use the basic principles of a healthy and varied diet to prepare dishes, understand where food comes from. Other skills – cutting (bridge and claw technique), peeling, blending
YEAR 3	Cooking and Nutrition	Textiles	Structures
Problem	How can we design, make and evaluate a healthy bread-based product with a filling for lunch, such as a wrap, a sandwich or roll?	How can we create a cushion for a pilgrimage?	How can we create a box to raise and collect money for charity?
	Link: PSHE & PE – healthy eating, lifestyle, diet.	Link: Religion – Jubilee Year *using Kapow	Link: Maths – 2-D and 3-D shapes, nets, measuring, Computing – designing and creating content
		uomg rapon	Key knowledge: shell structure
YEAR 4	Mechanisms (Levers and linkages)	Mechanical Systems (Pneumatics)	Cooking and Nutrition
Problem	How can we design, make and evaluate a greetings card with moving parts for family or friends?	How can we design, make and evaluate a moving 'creature in a box' toy for small children?	How can we design, make and evaluate a healthy yeast- based snack for parents and children for a school event?

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	Link: RE – Christmas - Mathematics – use	Link: Science – identify and compare the	Link: PSHE & PE – healthy eating, lifestyle, diet.
	the vocabulary of position, direction and	suitability of a variety of everyday	
	movement. Use a ruler to measure to the	materials for particular uses. Spoken	Skills and knowledge: understand and apply the principles of
	nearest cm, half cm or mm. Spoken	language – ask relevant questions to	a healthy and varied diet, prepare and cook a variety of
	language – ask relevant questions to	extend knowledge and understanding.	predominantly savoury dishes using a range of cooking
	extend knowledge and understanding.	Mathematics – measure, compare, add	techniques, understand seasonality, and know where and
	Build their technical vocabulary. Art and	and subtract: lengths, volume and	how a variety of ingredients are grown, reared, caught and
	design – use colour, pattern, line, shape	capacity. Art and design – use and develop	processed, safety and hygiene. Other skills –
		drawing techniques. Use colour, pattern,	combining/mixing, rolling, frying, coating/dipping
	Key skills: problem-solving, teamwork,	line, shape.	
	negotiation, consumer awareness,		
	organisation, motivation, persuasion,	Key skills: problem-solving, teamwork,	
	leadership, perseverance.	negotiation, consumer awareness,	
		organisation, motivation, persuasion,	
		leadership, perseverance, other – specify	
YEAR 5	Cooking & Nutrition	Structures	Mechanical Systems
Problem	How can we prepare a healthy and	How can we design and build a bird feeder	How can we create and build an orrery to illustrate the
	nutritious soup?	or bird house using recycled materials?	orbit of the planets of the sun?
	Link: PE & PSHE - healthy eating, diet and	Link: Science – Living Things and their habitats	Link: Science - Earth & Space - History - Ancient Greek
	exercise - Geography - seasonal food, imports,	RE – Stewardship – Geography –	Philosophers and thinkers - Art & Design - mixed media -
	local customs and produce.	Sustainability, data collection	Maths - 2D and 3D shapes
YEAR 6	Textiles	Cooking and Nutrition	Electrical Systems
Problem	How can we create a collective banner for	How can we prepare and cook a healthy,	How can we create an electronic moneybox?
	our class?	balanced meal?	
	Link: Art – Textiles – RE – Solidarity, Class	Link: PSHE & PE – healthy eating, lifestyle, diet.	Link: PSHE – Lifesavers and financial education, Maths –
	Saint – PSHE – Friendship and Community.	, , , , , , , , , , , , , , , , , , ,	money, Science – electricity (circuits, switches, conductors
	,	Skills and knowledge: understand and apply	and insulators), Maths – measuring using standard units,
	Key knowledge: combining different fabric	the principles of a healthy and varied diet,	Computing – use technology for research purposes
	shapes, computer aided design	prepare and cook a variety of predominantly	
	, , , , , , , , , , , , , , , , , , ,	savoury dishes using a range of cooking	How to Make Electric Saving Money Box (youtube.com)
		techniques, understand seasonality, and know	
		where and how a variety of ingredients are	Key knowledge: more complex switches and circuits
		grown, reared, caught and processed, food	(including programming, monitoring and control)
		safety and hygiene. Other skills – cutting,	3, 2 2 3 3 4 5 1 4
		baking	