

# St Mary's and St Benedict's RC Primary School

## Yearly Curriculum Overview Design & Technology

		Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS			Christmas decoration- hanging decoration	Cutting and scissor skills: Making Chinese lanterns	Food- preparing and mixing  Joining in different ways-Easter nests  Structures-bridges	Junk modelling: RE making a Church Selecting and using resources	Structures- Junk Modelling -pirate ship Verbally plan and create a pirate ship
Key Stage 1	Cycle A		Mechanisms pop ups and simple card levers. (Great Fire of London moving picture) Key Individual- Van Der Heyden (inventor of the firehose)		Food - preparing and combining foods (Smoothies) Key Individual- Jamie Oliver (Healthy Eating)		Structures - stability and strength(designing and building models for a purpose- windmill) Key Individual- Isambard Kingdom Brunel
	Key Vocabulary		Adapt, assemble, design, design criteria, input, mechanism, model, sliders test		Compare, cut, design evaluate, flavour, healthy, ingredients, juice, juicer, leaf, plant, recipe, root, seed, select, smoothie, stem, vine		Base, centre, design, equal, evaluate, middle, rotate, rotor, rotor, blades, sails, same, stable, strong, structure, test, weak

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	Cycle B			Mechanisms - wheels and axles (moon buggies) Key Individual- Elon Musk (Tesla)	Food - the eat well plate, where food comes from, principles of a healthy diet (a healthy wrap) Key Individual- Birds-natures inventor of the egg	Textiles - using a template, simple joining, choice of stitches, choice of materials (puppets/pouches) Key Individual- Hannah Rae (textile artist)	
	Key Vocabulary			Axle, axle holder, compare, design, mechanism, movement, product, tool, turn, user, wheel	Appearance, balanced, carbohydrates, combination, dairy, design, design brief, diet, evaluate, grate, grater, ingredients, menu, oils, proteins, review, spreads	Decorate, design, fabric, glue, model, hand puppet, safety pin, staple, stencil, template	
Lower Key Stage 2	Cycle A		Food - simple dish - the eat well plate (Seasonal tart) Key individual- Louis Pasteur (Pasturisation)		Mechanical systems - levers and linkages (Pop up card) Key Individual- Mary Anderson (invented the windscreen wiper)		Structures - shell/frame structures and strengthening (Castle) Key Individual- Zaha Hadid (shell structures)
	Key Vocabulary		Appearance, arid, climate,		Mechanism, lever, pivot, linkage system,		2D, 3D, design, key features, net, scoring,

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			complementary, design, evaluate, export, import, ingredients, Mediterranean, mock-up, mountain, polar, seasonal, seasons, temperate, texture, tropical		input, output, component, thumbnail sketch, research, adapt, properties, reinforce, motion		shape, stable, stiff, strong, structure, tab
	Cycle B	ICT and electrical systems - control and electrical components (torches) Key Individual- Ann Makosinski (young inventor of the hollow flashlight)			Textiles - seams, stiffening and strengthening, materials and fastenings (book cover) Key Individual- Alice Kettle (contemporary textile/fibre artist)		Food - simple savoury food and cooking techniques (savoury biscuits) Key Individual- Dr Marie Maynard Daly (research on fatty foods)

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	Key Vocabulary	Battery, bulb, buzzer, circuit, diagram, component, conductor, electrical item, electricity, electronic item, insulator series circuit, switch, target audience, test			Criteria, fabric, fastening, mock-up, stitch, template		Adapt, addition, appearance, budget, construct Cuboid, hygiene Ingredients, market research, modify target audience
Upper Key Stage 2	Cycle A		Food - food from another culture, variety of cooking techniques Key Individual- Michael Caines (chef)		Mechanical systems - cams, pulleys and gears (Automata toys) Key Individual- James Dyson		3D Textiles - using gussets, using patterns, joining with seam allowance, combining fabrics Key Individual- Althea McNish (textile designer)
	Key Vocabulary		Abattoir, adaptation, balanced, brand cross-contamination, enhance, hygiene, measure, nutrient,		Axle, force, gear gear system, input market research, mechanism, output problem statement, pulley, pulley system, renewable energy,		appendage blanket-stitch design criteria sew stuffed toy stuffing template

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			nutrition, nutritional value		sustainability		
	Cycle B		Food - chefs, food heroes, designing a healthy menu/eat well plate Key Individual- Constance Spry (inventor of Coronation Chicken)		Structures (Playgrounds) Key Individual- Fazler Rahman Khan		Electrical systems (Steady hand game) Key Individual- Ada Lovelace (first computer programmer)
	Key Vocabulary		balance bridge method complement cross- contamination enhance farm to fork pairing umami		apparatus design criteria equipment playground landscape features cladding		assemble circuit circuit symbol component conductor copper form function insulator LED

Unit

Product

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*Key Vocabulary*