



St Antony's DT Curriculum - Overview

Curious, Loving, Independent, Creative, Knowledgeable



(Curriculum Drivers: Global Goals, Laudato Si', Catholic Social Teaching, Creativity)

Year	Autumn	Curriculum Drivers links	Spring	Curriculum Drivers links	Summer	Curriculum Drivers links
Nursery	Enquiry Question/topic All About Me		Enquiry Question/topic People Who Help Us Growing		Enquiry Question/topic Clothes Toys	
	NC Programme of Study: Explore different materials freely, in order to develop their ideas about how to use them and what to make. Make simple models which express their ideas Join different materials and explore different textures		NC Programme of Study: Develop their own ideas and then decide which materials to use to express them.		NC Programme of Study: Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park.	
Reception	Enquiry Question/topic Boats		Enquiry Question/topic Junk modelling		Enquiry Question/topic bookmarks	
	NC Programme of Study: Return to and build on their previous learning, refining ideas and developing their ability to represent them.		NC Programme of Study: Children safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.		NC Programme of Study: They share their creations, explaining the process they have used.	
Year 1	Enquiry Question/topic Textiles (puppets)		Enquiry Question/topic Mechanisms- Moving story book		Enquiry Question/topic Cooking and nutrition - smoothies	



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	NC Programme of Study: -design purposeful, functional, appealing products -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -explore and evaluate a range of existing products. -evaluate their ideas and products against design criteria.		NC Programme of Study: design purposeful, functional, appealing products -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -explore and evaluate a range of existing products. -evaluate their ideas and products against design criteria. -explore and use mechanisms [for example, levers, sliders, wheels and axles], in their products.		NC Programme of Study: -design purposeful, functional, appealing products -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -explore and evaluate a range of existing products. -evaluate their ideas and products against design criteria.	
	Vocabulary: Net, join, freestanding, strong, design, construct, exterior, interior		Vocabulary: Sliders, levers, mechanism, design, construct, tools, measure		Vocabulary: Fruit, vegetables, sort, slice, dice Chop, mix, blend, safety, recipe, Ingredients, shopping board, mixer	
	Outcomes: Lesson 1: Shapes & features of puppets Lesson 2: Combining shapes Lesson 3: The interior Lesson 4: Design Lesson 5: Make Lesson 6: Evaluate		Outcomes: Lesson 1: Exploring sliders in books. Lesson 2: Exploring levers Lesson 3: Exploring wheel mechanisms Lesson 4: Design a picture with a moving mechanism Lesson 5: Make a picture with a moving mechanism Lesson 6: Evaluate		Outcomes: Lesson 1: What is a fruit & what is a vegetable? Lesson 2: How do they grow? Lesson 3: Smoothie/fruit cocktail ingredients Lesson 4: Making a smoothie/fruit cocktail Lesson 5: How was your smoothie?	
	Enquiry Question/topic		Enquiry Question/topic		Enquiry Question/topic	



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Year 2	Mechanisms Wheels & axels (Fire appliances/engines)		Food Teddy Bear's Picnic (Biscuit baking/food skewers)		Structure Stable Structures (Evaluating materials)	
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	Vocabulary: Wheel, axle, tools, construct, design, evaluate, chassis, windscreen, headlights, rear light, hose, fire appliance		Vocabulary: Health & safety, equipment, healthy, balanced diet, mix/mixer, stir, measure, beat, safety, recipe, instructions, ingredients, bake, wooden spoon, line, grease, evaluate		Vocabulary: Tools, construct, design, evaluate Join, strong, material, functional, stable	
	Outcomes: Lesson 1: Fire engines through the ages Lesson 2: How do wheels work? Look at examples in toy cars Lesson 3: Design a fire engine Lesson 4/5: Construct & decorate Lesson 6: Evaluate		Outcomes: Lesson 1: different types of picnic food and where they have come from. Lesson 2: Explore and taste Lesson 3: Baking biscuits following recipe Lesson 4: Design a food skewer		Outcomes: Lesson 1: Famous structures & buildings (link to Brunel) Lesson 2: Investigate materials and shapes. Using blocks/Lego to build different structures Lesson 3: Plan your structure Lesson 4/5: Construct, test, improve	



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			Lesson 5: Make a food skewer Lesson 6: Evaluate their picnic food			
Year 3	Enquiry Question/topic Structure Paper Structures (Stone Age & Iron Age houses)		Enquiry Question/topic Textiles Cross stitch & applique (1 st communion pouch)		Enquiry Question/topic Cooking and nutrition-bread	 THE GLOBAL GOALS
	NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world. -apply their understanding of how to strengthen, stiffen and reinforce more complex structures.		NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world.		NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world.	 3 GOOD HEALTH AND WELL-BEING  2 ZERO HUNGER



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	Vocabulary: Construct, design, evaluate, join, strong, material, functional, stable, net, structure, robust		Vocabulary: Applique, textiles, cross stitch, running stitch, aesthetics, luxury, functional, purpose		Vocabulary: Mix/mixer, stir, measure, safety, recipe, ingredients, bake, wooden spoon, rise/risen, line, grease, evaluate, yeast, rising agent, prove, knead, plait	
	Outcomes: Lesson 1: Investigating iron age houses Lesson 2: Investigate which paper shape is strongest? Making nets to construct. Lesson 3: Design iron age house with paper/card as basis Lesson 4: Construct Lesson 5: Evaluate		Outcomes: Lesson 1: What is applique? Investigating cushion. Lesson 2: Joining techniques. How to do running stitch and cross Lesson 3: Decorative sewing skills. Lesson 4: Design cushion Lesson 5: Make cushion Lesson 6: Evaluate		Outcomes: Lesson 1: How is bread made? What food group is it? (Warburton's https://www.warburtons.co.uk/our-company/sustainability/teaching-resources/bread-making-project/) Lesson 2: History of bread and Investigating different bread flavours and shapes from around the world. https://www.foodfactoflife.org.uk/7-11-years/activity-packs/bread-activity-pack/ Lesson 3: Making, kneading and proving. Lesson 4: Design a healthy sandwich using different food groups. Lesson 5: Taste and evaluate sandwiches.	
Year 4	Enquiry Question/topic Structures- Pavilions	  	Enquiry Question/topic Electrical systems- Torches		Enquiry Question/topic Food and nutrition – adapting a recipe	  
	NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.		NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.		NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.	



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	-generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world. -understand and use mechanical systems in their products.		-generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world. -apply their understanding of how to strengthen, stiffen and reinforce more complex structures.		-generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components. -investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world. - Understand and apply the principles of a healthy and varied diet when adapting recipes.	
	Vocabulary: Mechanism, lever, linkage, pivot, slot, bridge, guide system, input, process, output linear, rotary, oscillating, reciprocating user, purpose, function prototype, design criteria, innovative, appealing, design brief		Vocabulary: Features, purpose, function prototype, design criteria, appealing, design brief, innovative, conductor, insulator, electrical circuit, switch, crocodile clip, wire, cell, battery, positive, negative, component, loose connection		Vocabulary: Nutrients, allergies, adapted,	
	Outcomes: Lesson 1: Investigating mechanisms & how to make them Lesson 2: Developing understanding further		Outcomes: Lesson 1: What is electricity? Renewable energy. Saving energy. Lesson 2: Making switches		Outcomes: Lesson 1: Understand and apply the principles of a healthy and varied diet when adapting recipes	



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	Lesson 3: Plan and design Lesson 4/5: Construct Lesson 6: Evaluate		Lesson 3: Investigate materials for casings Lesson 4: Design Lesson 5: Make Lesson 6: Evaluate. How can we make it more energy efficient? Solar power		Lesson 2: Demonstrate effective and safe cooking skills by planning, preparing and cooking using a variety of ingredients and techniques. Lesson 3: Develop knowledge of the nutritional content and functional properties of different ingredients when modifying recipes. Lesson 4: Design and make a new food product by adapting an existing recipe to meet specific criteria or dietary needs Lesson 5: Evaluate adapted recipes against set specifications and identify areas for improvement Lesson 6: Understand seasonality and how ingredients are sourced when selecting alternatives for recipe adaptations	
Year 5	Enquiry Question/topic Cooking and nutrition- developing a recipe		Enquiry Question/topic Structures- bridges	 	Enquiry Question/topic Mechanisms-pop- up books	  
	NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components.		NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components.		NC Programme of Study: -use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups. -generate, develop, model and communicate their ideas. -select from and use a range of tools, equipment, materials and components.	



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	-investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world.		-investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world.		-investigate and analyse a range of existing products. -evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. -understand how key events and individuals in design and technology have helped shape the world.	
	Vocabulary: Culture, celebration, nutrition, utensils, ingredients, fat, sugar, carbohydrate, protein, vitamins, nutrients, nutrition, healthy, varied, gluten, dairy, allergy,		Vocabulary: Structure, Materials, Stability, , design, truss, structures, load, evaluation, construction.		Vocabulary: Mechanisms, design, pop -up, element, prototypes, sliders, box folds, joining, secure.	
	Outcomes: Lesson 1: Understanding the need for a healthy diet Lesson 2: taste testing – what is healthy/what do you like? Lesson 3: Design your own healthy dish Lesson 4: Create your dish Lesson 5: Celebration and evaluation		Outcomes: Lesson 1:Analyse different types of bridges to determine their strength and stability Lesson 2:Explore and compare properties of various bridge-building materials. Lesson 3:Design a bridge that meets specific criteria for strength and purpose. Lesson 4:Practice marking and sawing techniques for wooden components Lesson 5: Construct a truss bridge by assembling wooden parts accurately1.		Outcomes: Lesson 1:Analyse different pop-up mechanisms to understand how they function. Lesson 2: Design a pop-up book page incorporating at least one moving element. Lesson 3: Create paper prototypes of pop-up mechanisms like sliders and box folds. Lesson 4:Construct a multi-page pop-up book using various mechanisms. Lesson 5:Apply appropriate joining techniques to assemble pop-up elements securely.	



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			Lesson 6 Evaluate the finished bridge against the original design criteria		Lesson 6: Evaluate the finished pop-up book against the original design criteria	
Year 6	Enquiry Question/topic Textiles Fastenings (Cushion or phone holder)	 THE GLOBAL GOALS  7 AFFORDABLE AND CLEAN ENERGY 	Enquiry Question/topic Structures (What does an architect do?)		Enquiry Question/topic Advertising/Set design Using computing (Year 6 production)	
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			reinforce more complex structures.			
	Vocabulary: Fastening, textiles, fabric, cross stitch, running stitch, blanket stitch, aesthetics, luxury, functional, purpose, hidden stitches, visible stitches, manufacture, development, natural fibres, synthetic fibres		Vocabulary: Structure, frame structure, join, strengthen, reinforce, stability, purpose, function prototype, design criteria, annotated sketch, compression, strut, tension, tie, horizontal, vertical, triangulation,		Vocabulary:	
	Outcomes: Lesson 1: Investigating properties and suitability of fabrics Lesson 2: Different stitches and joining techniques Lesson 3: Design & aesthetics Lesson 4/5: Make Lesson 6: Evaluate		Outcomes: Lesson 1: What makes a structure stable and strong? Lesson 2: What is the purpose of different structures? Are aesthetics important? Lesson 3: Architect visit. What does an architect do? Lesson 4: Design a strong, stable structure Lesson 5: Build structures Lesson 6: Evaluate structures.		Outcomes: Lesson 1: What is advertising? Lesson 2: investigate advertising techniques and posters Lesson 3: Design an advertising posters and leaflets using computing Lesson 4: Make advertising poster/leaflet using computing Lesson 5: Design set and props for production Lesson 6: make set and props for production	