

## All Souls' Catholic PRIMARY SCHOOL

## Design Technology Curriculum Overview

2024-25

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	Rain Catcher	Boats and vehicles	Food and Nutrition: Sandwiches	Food & Nutrition: Pizza or Bread	Food and Nutrition: Savoury Roll	Structures - bridges
weathe they go - set the measur - set crit - develor joining to	at various instruments to record the er — what can be recorded? How would a about recording these things? He challenge of making an instrument to re rainfall iteria for its success op skills in cutting, manipulating and the materials being used ruct, test and evaluate	- what is a boat, what do they look like and how can they be powered? - set children the challenge of making a boat which must float and which must be able to travel a minimum of 50cm across water, without being touched - experiment with materials for them to decide what they might wish to take it out of - the boat should be no longer than 30cm - practice cutting, manipulating and joining materials using a range of techniques - design, construct, test and evaluate	- what is a sandwich – why are they a good choice of snack? - what is the structure of a sandwich - taste a variety of breads and sandwiches and examine flavours and textures - look at the nutritional value of various sandwich ingredients - plan and design a sandwich for a school trip - make sandwich (or wrap) and package it - evaluate sandwich	- what is a pizza, what is the history, where do they come from and what do they look like - what types/flavourings of pizza are there - examine, describe and categorise a range of pizza toppings and their associated food groups - design a healthy pizza - make a pizza dough - add toppings as designed and cook - taste and evaluate	- explore different types of sausage/vegetarian based rolls/pastries and their nutritional facts - explore how to make different savoury rolls - explore pastries, fillings, sauces, toppings and side dishes that can accompany savoury rolls - plan and design a savoury roll to make - make and cook a savoury roll - taste and evaluate	- investigate the purpose, appearance and structure of bridges - develop skills in drawing annotated exploded diagrams of bridges - practise and develop skills in woodwork, learning how to cut, sand, drill and join wood effectively - design a bridge for a specific load - construct model bridge using materials and construction methods practised - decorate and test item - evaluate
	Buildings	Food and Nutrition: Healthy soup	Green Houses	Musical Instruments	Photo frames	Food and Nutrition: Baked/Unbaked
the city - what r - what s - childre art strav - map o by maki - learn a strength	at key buildings/landmarks both around y and the world materials are they build out of? shapes can they see in these buildings en choose a building to construct using	<ul> <li>- what is soup?</li> <li>- look at cans of soup – ingredients</li> <li>- taste and evaluate a range of different soups to understand flavouring and texture</li> <li>- discuss use of potato and cream in production of soup</li> <li>- discuss composition of soup and essential ingredients</li> <li>- display possible additional ingredients and vegetables</li> <li>- children to design their own soup – selecting the ingredients they would like</li> <li>- discuss process</li> <li>- make and taste soup – trying various types of bread alongside to decide which would be the most appropriate</li> <li>- children design either a recipe card or a label for a tin</li> <li>- evaluate</li> </ul>	- look at greenhouses and their purpose/structure and the way that they work - develop understanding of strong and stable structures and properties of materials that can be used to create a greenhouse - explore different designs of greenhouses and select one to make - construct, test (using a live plant), and evaluate	- look at existing instruments and classify into groups based upon how they are played and/or the sound that they make - create simplified models (drawings) of how these instruments work and could be constructed and the materials that are used - in groups set the challenge of creating an ensemble which will combine to compose a piece of music — they should, therefore have un-tuned as well as instruments capable of producing varying pitches - design instruments to be made out of recycled/reclaimed materials - make, test, compose, perform, evaluate	- investigate a range of picture frames, their design, construction, materials and function - how are they used e.g. wall mounted/freestanding - dismantle picture frame and reverse engineer — what parts are needed and for what purpose - develop understanding and skill in using tools to create a range of basic wood joints - design a photo frame — in conjunction with the macro photography unit in art - design should be made from wood, require joints and decorative work and embellishments - choose and use materials and tools to create a frame as designed - mount photo and test frame - evaluate	- what are desserts? Why do we have them? How can they fit into a balanced/healthy diet - taste a range of baked and unbaked dessert. Can the children classify these and identify traits of each - using their own likes and preferences, design (using access to online recipes) either a baked or unbaked dessert (cake, biscuit, tiffin, cheesecake, rocky road etc) - plan and produce an instruction card for the production of their dessert - make/bake dessert using own instructions - taste and evaluate
Foc	od and Nutrition: Triple Salad	Moving Pictures	Story Books	Lego coding	Shelters	Pencil Cases
grown - classify the plan leaves, - discuss commo - childre these ha - look at compor cutting - childre	en to design a 'triple' salad, using three	- children look at a range of books with moving parts and discuss their impact - practise and learn a range of ways to make moving parts within an image or book - design own moving image using the range of techniques learnt - construct, test, evaluate	- investigate and evaluate products, including story books, with lever and linkage systems - experiment and develop skills in creating moving mechanisms - explore and use a range of different graphic fonts and techniques - plan and design a story book - select and use tools, materials and techniques to create a story book - evaluate story book	-Investigate Lego mechanical blocks and coding software -Present challenge to each team, how can it be solved using different tools? -Produce a solution, documenting process with photos and notes -Create a final poster that explains problem and solutions made	- investigate a range of shelters, their purpose, structure, appearance and material construction - what characteristics must a shelter have? - use a range of challenge cards to set the children the challenge of designing a shelter for a purpose - produce a range of design ideas before developing a final design which is annotated with materials and construction methods - select, choose and use a range of materials and techniques to construct a model of the shelter	- investigate a range of pencil cases – their materials, shapes, designs and functions - what are the common characteristics, and which are design specific - reverse engineer a range of pencil cases and determine the construction methods - design their own pencil case to use at secondary school - identify the techniques and skills required and practise - construct pencil case - evaluate
cutting - childre ingredie	getc.				and techniques to construct a model of the	- construct pencil case