



Design Technology Overview

DT is taught in the second half of each term, apart from Summer 1 in EYFS, when the DT unit matches their pirate theme

	Autumn	Spring	Summer
EYFS	Cooking and Nutrition: Soup Exploring vegetables, where they come from and how they can be prepared for cooking by designing and making a class soup.	Textiles: Bookmarks Developing fine motor skills through a range of threading activities before moving on to use a binka and a needle.	Structures: Boats Investigating the properties of materials through water play to discover which materials are waterproof and whether they float or sink.
Year 1	Textiles: Simple Stitches Examining fabrics, practising basic sewing techniques and identifying how different materials are made from threads.	Structures: Stable Structures Investigating stable shapes and using an understanding of balance to discover how wide or heavy bases improve stability in freestanding structures.	Cooking and Nutrition: Smoothies Selecting fruit and vegetables and preparing food by cutting and juicing to create a smoothie to meet a design brief.
Year 2	Structures: A Chair for a Bear Investigating strong shapes and the properties of stiff and flexible materials by designing a chair inspired by the story 'There's a Bear on My Chair'.	Cooking and Nutrition: Balanced Diet Discovering the importance of a balanced diet and creating a tasty, balanced wrap to meet a design brief.	Mechanisms: Fairground Designing and creating a functional fairground wheel so that the wheel rotates and the structure stands freely.
Year 3	Structures: Product Packaging Exploring how 3D shell structures are created from nets, investigating their use in packaging and applying this understanding to create original designs.	Mechanical Systems: Pneumatic toys Investigating how compressed air can create movement within a mechanism and be used in a working pneumatic toy.	Cooking and Nutrition: Eating Seasonally Investigating seasonal food in the UK and applying pupils' understanding to create a seasonal food tart.
Year 4	Electrical Systems: Torches Applying scientific understanding of electrical circuits through designing and making a torch using recycled and reclaimed materials.	Cooking and Nutrition: Adapt a Recipe Adapting a basic biscuit recipe by adding or removing ingredients to make it suitable for a target audience.	Mechanical Systems: Mechanical Cars Exploring mechanical systems by building and testing prototype cars to identify effective design features.