

Design and Technology: Unit Overview

EYFS

		Food and Nutrition	Exploring materials and tools	Structures	Mechanisms
Continuous Provision		<p>Home corner Exploration of kitchen utensils cooking equipment, spice jars and scales.</p> <p>Developing basic food preparation skills. E.g. peeling fruit, chopping soft fruit (such as bananas), mixing ingredients together and spreading using knives.</p>	<p>Playdough area Use of rolling pins, printers, shapes, cutters, cake cases, pizza cutters, recipe books, scissors, cutlery.</p> <p>Craft/Creative area Junk modelling using a range of materials and resources such as: a range of scissors, hole punches, match sticks, lollipop sticks, collage materials, masking tape, straws, bottle tops, string, straws.</p>	<p>Construction kits To explore structures and materials, including:</p> <ul style="list-style-type: none"> • Stickle bricks • Knex • Waffle blocks • Wooden blocks • Mobilo • Megablocks • Magnetics • Inter-star duplo 	<p>Construction kits To explore how things work and move, including:</p> <ul style="list-style-type: none"> • Marble Run • Kids Knex • Mobilo • Popoids • Builder's Kit
Text	Autumn	Stick Man			
	Spring	Dear Zoo			
	Summer	What the Ladybird heard at the Seaside			

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	Academic Year	Academic Year	Academic Year	Academic Year
Cycle A	2024 to 2025	2026 to 2027	2028 to 2029	2030 to 2031
Cycle B	2023 to 2024	2025 to 2026	2027 to 2028	2029 to 2030

Years One and Two

	Autumn	Spring	Summer
Cycle A	Food and Nutrition Party finger food, including sandwiches.	Mechanisms Sliders and Levers: Moving Pictures	Structures Freestanding structures: Billy Goat's Gruff Bridge
Cycle B	Food and Nutrition Preparing Fruits and Vegetables: Layered salad	Mechanisms and Structures Mechanisms: Wheels and axels	Textiles Joining and decorating fabric: Hand Puppets

Years Three and Four

	Autumn	Spring	Summer
Cycle A	Food and Nutrition Healthy and Varied Diet: Vegetarian curry	Mechanisms Pneumatics: Theatre	Structures Shell Structures using Computer Aided Design: Gift box
Cycle B	Food and Nutrition Savoury party food: Cupcakes	Mechanisms Simple Circuits and Switches: nightlight with simple switch (using Crumbles)	Textiles Bendy bags: drawstring bag

Years Five and Six

	Autumn	Spring	Summer
Cycle A	Food and Nutrition Celebrating Culture and Seasonality: Salsa and flatbread	Mechanisms CAM mechanisms: Moving CAM toy	Structures Frame Structures: WW2 Shelter
Cycle B	Food and Nutrition Celebrating Culture and Seasonality: Salsa and flatbread	Mechanisms Pulleys or Gears/ Electrical mechanisms: Buggy (using Crumbles)	Textiles Combining different fabric shapes: Wall hanging



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Inventors, designers, engineers, chefs, manufacturers

Our knowledge progression document identifies that by years five and six children will know about **inventors**, **designers**, **engineers**, **chefs** and **manufacturers** who have developed ground-breaking products.

This learning links to cultural capital and learning about artists in art and musicians in music.

Garden Class

	Academic Year	Academic Year	Academic Year	Academic Year
Cycle A	2024 to 2025	2026 to 2027	2028 to 2029	2030 to 2031
Cycle B	2023 to 2024	2025 to 2026	2027 to 2028	2029 to 2030

Year	Individual	Area	Product
A	Nancy Maria Donaldson Johnson (28/12/1794 – 22/04/1890)	Inventor	Nancy Maria Donaldson Johnson was awarded the first US patent for a hand-cranked ice cream freezer in 1843.
B	Heston Marc Blumenthal (27/05/66 to present day)	Chef	British celebrity chef, TV personality and food writer. Blumenthal is regarded as a pioneer of multi-sensory cooking, food pairing and flavour encapsulation. He came to public attention with unusual recipes, such as bacon-and-egg ice cream and snail porridge.

Meadow Class

	Cycle A	Cycle B	Cycle C	Cycle D
Academic Year	2022 to 2023	2023 to 2024	2024 to 2025	2025 to 2026
Academic Year	2026 to 2027	2027 to 2028	2028 to 2029	2029 to 2030

Year	Individual	Area	Product
A	John Deere (1804 to 1886)	Manufacturer	pioneer American inventor and manufacturer of farm machinery. After much experimenting, he made the first successful steel plow
B	Marie Curie (1867 to 1934)	Inventor	During World War I she developed mobile radiography units to provide X-ray services to field hospitals.
C	Virgil Abloh (1980 to 2021)	Designer	was a well-established American designer who became the artistic director of Louis Vuitton's menswear collection in 2018, and was given increased creative responsibilities across the LVMH brand in early 2021. In just a few short years, Virgil really made a mark among the fashion world with his unique designs and personality.
D	Hedy Lamarr	Engineer	Hedy Lamarr was both an incredible actress and a brilliant female inventor. She devised a method of encrypting signals to prevent enemy spies to listen to sensitive pieces of information. Without her, there would be no wireless communication in our modern world.