

DT: Long Term Overview

| | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
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| Year 1: Orange Class | | Structures: Constructing a windmill The children will design and construct a windmill for a client (mouse) to live in. | | Cooking and nutrition: Smoothies The children will design and make a fruit and vegetable smoothie and accompanying packaging. | Mechanisms: Wheels and axles The children will design and make a moving vehicle. | Textiles: Puppets The children will design and make a character-based hand puppet. |
| Year 2: Yellow Class | Mechanisms: Making a moving monster The children will design, make and evaluate a moving storybook. | Cooking and nutrition: A balanced diet The children will learn about the food groups to develop a healthy wrap. | Mechanisms: Fairground wheel The children will design and create a Ferris wheel so that the wheel rotates and the structure stands freely. | | | Structures: Baby Bear's chair The children will explore stability and methods to strengthen structures, to develop an improved chair for Baby Bear |
| Year 3: Green Class | | | Electrical systems: Electric poster The children will develop an electric museum display based on the Romans. | Textiles: Cross-stitch and appliqué The children will use cross-stitch and appliqué skills to design and make a cushion. | Structures: Constructing a castle The children will design and make a recycled-material castle. | Mechanical systems: Pneumatic toys The children will design and make a pneumatic toy including thumbnail sketches and exploded diagrams. |
| Year 4: Blue Class | Mechanical systems: Making a slingshot car The children will design and make a car with a working slingshot mechanism. | Electrical systems: Torches The children will evaluate a range of existing torches and their features, then develop a new functional torch design. | | Cooking and nutrition: Eating seasonally The children will learn about various fruits and vegetables and the relationship between colour and health benefits. | Structures: Pavilions The children will design and create a stable, decorated pavilion. | |
| Year 5: Purple Class | Cooking and nutrition: What could be healthier? The children will understand welfare issues for rearing cattle and develop a healthier bolognaise recipe. | Textiles: Stuffed toys The children will design a stuffed toy and make decisions on materials, decorations and attachments (appendages). | | | Structures: Bridges The children will mark, saw and assemble a wooden truss bridge. | Mechanical systems: Pop-up book The children will create a pop-up storybook, using lever, sliders, layers and spacers to create paper-based mechanisms. |
| Year 6: Pink Class | | Cooking and nutrition: Come dine with me The children will develop a three-course menu focused on three key ingredients, and explore their farm to fork process. | | Textiles: Waistcoats The children will use a combination of textiles skills to design, assemble and decorate a waistcoat for a chosen purpose. | | Electrical systems: Steady hand game The children will design and develop a steady hand game using a series circuit. Mechanical systems: Automata toys The children will develop a functional automata window display, to meet the requirements in a design brief. |