



St Matthew's Catholic Primary School

D&T Planning Overview 2022-23

| | Autumn Term | Spring Term | Summer Term |
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| Reception | Throughout the year children will have the opportunity to construct with a purpose in mind, use simple tools and techniques appropriately, build and construct with a wide range of objects, select the tools and techniques they need to shape and assemble and join materials using different methods. | | |
| Year 1 | <p>Christmas Card Mechanisms Sliders and levers</p> <p>Children to find out what a moving mechanism is and how to create one. They will focus on slider mechanisms, recognising different types and how they work before using a character to create their own moving picture</p> | <p>Playgrounds Structures Freestanding structures</p> <p>Children to explore and discuss various different playground equipment and the materials used to make it. They will choose two different pieces of equipment to draw, label and make.</p> | <p>Fruit kebabs Food Preparing fruit and vegetables</p> <p>Children to look at variety of different foods and the importance of eating more fruit and vegetables than certain other groups of foods. They will be challenged to design some new recipes using different fruits and making sure they are colourful, tasty and healthy</p> |
| Year 2 | <p>Christmas decorations Textiles Templates and joining techniques</p> <p>Children will learn different sewing techniques to use when creating a decoration. They will practise these skills before making their decoration..</p> | <p>Moving vehicle Mechanisms Wheels and axles</p> <p>Children to explore and discuss a variety of different vehicles, their features and what they are used for. To follow their designs to create and make their vehicles using a range of craft materials. They will need to make sure they are working safely and carefully</p> | <p>Perfect Pizzas Food Preparing fruit and vegetables</p> <p>Children to look at variety of different foods and the importance of eating a well-balanced diet. Children to design and make a healthy and balanced pizza, making sure they remember to follow the pizza criteria chosen.</p> |
| Year 3 | <p>Gift boxes Structures Shell structures</p> <p>Children will investigate a collection of different shell structures including packaging and gifts boxes. They will then design and create their own shell structure with a specific purpose.</p> | <p>Pencil Cases Textiles 2-D shape to 3-D product</p> <p>Children will learn about a variety of hand-sewing stitches, then either practise joining pieces of scrap material using different hand-sewing stitches, or practise stitches using a template.</p> | <p>Seasonal Food Food Healthy and varied diet</p> <p>Children will learn about the nutritional content of a variety of foods and consider how grouping food can help us plan for a healthy diet.</p> |

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| <p>Year 4</p> | <p style="text-align: center;">Seasonal Food Food Healthy and varied diet</p> <p>Children will learn about the nutritional content of a variety of foods and consider how grouping food can help us plan for a healthy diet.</p> | <p style="text-align: center;">Storybooks Mechanical Systems Levers and linkages</p> <p>Children will examine a variety of books with moving mechanisms and discuss their design and construction using some technical vocabulary. They will then more closely examine some moving mechanisms, sketching and labelling them.</p> | <p style="text-align: center;">Light it up Electrical Systems Simple circuits and switches</p> <p>Children will study a variety of lights, describing some of their features, e.g. the way they reflect light, how they are designed to be free-standing. They may then label and describe the features of a light, or examine a variety of different lights.</p> |
| <p>Year 5</p> | <p style="text-align: center;">Building Bridges Structures Frame structures</p> <p>Children will learn about how simple bridges are constructed using beams, pillars or piers, then make and test beam bridge designs</p> | <p style="text-align: center;">Bread Food Celebrating culture and seasonality</p> <p>Children will learn about different types of food and the cultures and/or regions from which they originate. They will then taste and describe a variety of foods.</p> | <p style="text-align: center;">Steady hand game Electrical Systems More complex switches and circuits</p> <p>Using their understanding of electrical systems and design, pupils are challenged with designing and creating a steady hand game. Children will use electrical circuits to build a circuit with a buzzer.</p> |
| <p>Year 6</p> | <p style="text-align: center;">Gingerbread Food Celebrating culture and seasonality</p> <p>Children to explore and discuss different varieties of foods and combinations. They will analyse different nutrition facts and find out how to check the nutrition fact labels. They will design and create patterns to help shape their design.</p> | <p style="text-align: center;">Fashion and Textiles Textiles Combining different fabric shapes</p> <p>Children will start to learn about the work of fashion designers, then discover some ways in which textiles may be joined and decorated. Following this, they may either practise hand sewing stitches or identify machine stitching patterns on a range of garment</p> | <p style="text-align: center;">Fairgrounds Mechanical Systems Pulleys or gears</p> <p>Children to explore and discuss different fairground rides they have been on. They will think about how they move, what are the components that join them together and the mechanisms that make them work by labelling different pictures of fairground rides.</p> |

