**Design and Technology**

**Long Term Plan**

**2023-2024**

| | Design and Technology Topics – To design, make and evaluate. | | | |
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| | **Autumn Term** | | **Spring Term** | **Summer Term** |
| **EYFS Year A** | **Food** Gingerbread Men | **Decorations** Christmas Decorations | **Materials** Wild Animal Masks | **Structures** Boats |
| **EYFS Year B** | **Food** Porridge for 3 Bears | | **Structures** Rockets | **Materials** Farm Animal Masks |
| **Year 1** | **Food** (Preparing fruits) Fruit Salad | | **Mechanisms** (Sliders) Moving Image using a Slider | **Structures** (Freestanding Stable Structures) Bridge for Three Billy Goats |
| **Year 2** | **Food** (Preparing savoury food and following recipe) Sandwiches and scones for Queen's Coronation | | **Textiles** (2D shape to 3D product) Ticket Holder for Titanic Passenger | **DT Key Events and Individuals** – Henry Ford (Mechanisms, Wheels and axels) Cars |
| **Year 3** | **Structures** (Shell structures inc. CAD) Sarcophagus for Mummy | | **DT Key Events and Individuals** – Isambard Kingdom Brunel (Frame structures and Triangulation) | **Mechanisms** (Levers and linkages) |

|  |  | Bridge Across the Mersey | Moving Image using Levers and Linkages |
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| Year 4 | **Textiles**<br>(Combining different fabric shapes – inc. CAD)<br>Greek bag | **Electrical Systems**<br>(Simple circuits and switches – programming and control)<br>Burglar Alarm | **Food**<br>(Seasonality)<br>African Tagine |
| Year 5 | **Structures**<br>(Frame structures, Triangulation and Hydraulics)<br>Moving Bridges | **Food**<br>(Cooking Techniques, Seasonality and Budgeting)<br>Norman Feast | **Textiles**<br>(Clothing, combing fabric shapes, dying)<br>Carnival Clothing |
| Year 6 | **Food**<br>(Food pairing, Seasonality)<br>Rations and food pairing. Recover seasonality | **Vehicles and Electrical systems**<br>(Complex switches and circuits – programming, monitoring and control)<br>Rescue Vehicle for Everest | **Mechanisms**<br>(Pulleys)<br>Pulleys Mechanism to drop food into I'm A Celeb Camp |