**Treeton C E Primary School D&T Long Term Plan**

**Mechanical systems- Wheels and Axles- hinges**

Structures -Freestanding structures

Food

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| FS1  **Mechanisms**  Wheel and axles | **Structures**  Bridges for a troll | **Food**  Tea Party |
| FS2  **Food**  Bread, soup, pizza | **Structures**  Houses (3 little pigs) | **Mechanisms**  Hinges (pet carrier) |

**Key Stage 1**

**Mechanical systems- levers and sliders- winding mechanism (essentials curriculum)**

**Mechanical systems- Wheels and Axles**

Structures -Freestanding structures

Food- -one cooking per year

Textiles- templates and joining

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| **Mechanisms**  Wheels and axles    YA | **Sliders – Growing Plant** | **Food – Smoothies** |
| **Textiles**  YB  **Templates and joining**  **making a kit bag** | **Structures- Freestanding structures**  **Winding Mechanism**  **Freestanding toy** | **Food**  Preparing fruit and vegetables  (including cooking and nutrition requirements for KS1)  Sandwiches |

**Lower Key Stage 2**

**Mechanical systems- levers, linkages and pneumatics**

**Food - Healthy and Varied diet**

**Textiles-2D shapes to 3D products**

**Structures-shell structures**

**Electrical systems – simple circuits in switches (including programming and control)- need adding**

**Computer aided design - Need adding to a project**

YA

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| **Electrical Systems**  Simple circuits and switches (including programming and control)  Night Lights | **Structures**  Shell structures  (including computer-aided design)  Packaging for frozen snacks | **Food**  Healthy and varied diet  (including cooking and nutrition requirements for KS2)  **Enterprise**  **Make a healthy savoury snack/meal**  **Super Salads** |
| YB  **Mechanical Systems**  Levers and linkages  Pneumatics  Geographical Books | **Food**  Healthy and varied diet  (including cooking and nutrition requirements for KS2)  Healthy Meal | **Textiles**  2-D shape to 3-D product  Enterprise  Cushions |

**Upper Key Stage 2**

**Mechanical systems-Cams/pulleys and gears**

**Food-Culture and seasonality**

**Textiles- Combining different fabric shapes**

**Structures- Frame Structures**

**Electrical systems-Monitoring and Control - Need adding More complex switches**

**Computer aided design - Need adding to a project**

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| **Food**  Celebrating culture and seasonality  YA  (including cooking and nutrition requirements for KS2)  Ration recipes | **Mechanical systems-Cams** | **Textiles**  Combining different fabric shapes  (including computer-aided design)  Viking purses |
| **Electrical Systems**  YB  **More complex switches**  **Frame Switches Structures**  Frame structures | **Mechanical systems- pulleys and gears- Space educational toys**  Monitoring and Control | **Food**  Celebrating culture and seasonality  (including cooking and nutrition requirements for KS2)  Asian food |