**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 axlesYA  | **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 linkagesPneumatics Geographical Books | **Food** Healthy and varied diet(including cooking and nutrition requirements for KS2)Healthy Meal | **Textiles**2-D shape to 3-D productEnterpriseCushions |

**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 seasonalityYA(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 |