**Year 5 DT Curriculum (MTP)**

**Science LTP**

**Holy Trinity C of E Primary School**

**Science LTP**



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| **Designing and Evaluating** | **Mechanisms- Pulleys and Gears** | **Using Materials -** **Combining different fabric shapes** | **Food Awareness** - **Food Celebrating culture and seasonality** |
| D: Can produce a detailed step by step plan, with labels and annotations  D/E: Can investigate and analyse a range of existing products, discussing their features, construction, purpose and intended users  D: Can come up with a range of ideas after they have collected information  D: Can produce a detailed step-by-step plan  D: Can suggest some alternative plans and say what the good points and drawbacks are about each  D: Can use their research to develop some of their own design criteria  E: Can explain in detail about what they like about their product and what they could change to improve it  E: Are motivated to refine and improve their products  E: Can evaluate appearance and function against original criteria | D: Can come up with a range of ideas after they have collected information  D: Can produce a detailed step-by-step plan  M: Can make up a prototype first  M: Can use a range of tools and equipment expertly  M: Can measure accurately to ensure that everything is precise  E: Are motivated to refine and improve their products  M: Knows that mechanical systems such as pulleys and gears create movement | D: Can come up with a range of ideas after they have collected information  D: Can produce a detailed step-by-step plan  D: Can suggest some alternative plans and say what the good points and drawbacks are about each  M: Can measure accurately to ensure that everything is precise  M: Can use a range of tools and equipment expertly  E: Can evaluate appearance and function against original criteria.  E: Are motivated to refine and improve their products  UM: Accurately measure, mark out, cut, and shape materials and components  UM: Can join materials to make products with permanent or temporary fastenings.  UM: Can cross stitch  UM: To know when to use particular stitch types, including finishing stitches  UM: To know how a questionnaire can help with product design and to make their own | D: Can come up with a range of ideas after they have collected information  D: Can put together a step-by-step plan which shows the order of making, equipment and tools they will need  M: Can use a range of tools and equipment expertly  M: Can measure ingredients accurately using different units  E: Can evaluate appearance and function against original criteria  E: Are motivated to refine and improve their products  FA: Can describe what they do to be both hygienic and safe  FA: Know how to cut, shape, roll and knead dough  FA: Using heat on a hob, oven or microwave ensuring food is fully cooked  FA: Create recipes, including ingredients, methods, cooking times and temperatures |

**NB**

**Designing and Evaluation runs through all of the strands taught. Within lessons, consider including work on designers, chefs and inventors/inventions (e.g. George Stephenson, Nigella Lawson)**