**Design & Technology Long Term Plan**

Materials and Mechanisms units Textiles units Food units Electricals and Electronics Cross-curricular links *Sticky Vocabulary*

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|  | Year 3 | Year 4 | Year 5  | Year 6  |
| Autumn | Toy Cars | Roman Catapults | Christmas Cards (incl ‘Electricals and Electronics’) | Bookmarks |
| (linked to Forces learning in Science) | (Linked to Romans topic in CC) Bring project forward Autumn 1. Cover design throughout History in Guided Reading session/Talk Assembly.  | (Linked to Art - Drawing/3DScience - Electrical CircuitsC.S.R.E. – Christianity/Christmas) | (Linked to Battle Of Hastings Learning in CC) |
| Light up Christmas scene |
| End of Electricity Unit Autumn 2 Science. Create simple electrical circuit to produce light/sound.  |
| *Hacksaw, G-Clamp, bench hook, triangular support, axle* | *Hand-drill, screw, nail,**hard wood, soft wood* | *Faults, battery, circuit, series, parallel.* | textiles, running stitch, back stitch, chain stitch, seam allowance |
| Spring | Reflective Bag Patches | Easter Bags | New Chocolate Bar – healthier alternativeSewing – recycling to create a bag to hold a notebook. | Chocolate Truffles  |
| (Linked to Light topic in Science and road safety) | (Linked to Ancient Maya learning in CC) |
| (Linked to PSHECreative Curriculum – Climate ChangeMathsLiteracyArt,Health & Physical Well-being) | *temperature, baking, cooking, ratios, storage.* |
|
| (Linked to Easter/Christianity learning in RE) Importance of reusable bags. Link to Science and PSHE.  |
| *Needle, thread, sew, running stitch, textiles* | *Needle, thread, sew, running stitch, textiles* | *Back stitch, chain stitch, seam allowance, spatula, hob* |
| Summer | Mountain Energy Bars | Fruit Salad | Viking Long Boat(Linked to Vikings topic in CC) | Electronic Hand Game (incl ‘Electricals and Electronics’)  |
| (Linked to Mountains topic in Creative Curriculum) | (Linked to PSHE Healthy Eating)  |
|  | *Transfer, levers, pulleys, rotary motion, cams.* | (Linked to Electricity learning in Science) |
| *Recipe, weigh, hygiene, scales, ingredients* | *Peel, grate, hygiene, scales, ingredients* |
| *Faults, battery, circuit, series, parallel.* |

NOTE: In addition, Year 6 will take part in a whole year Materials and Construction project in which they design and make their own wooden puppet which is then used for an end of year performance.