**Design and Technology Long Term Plan**

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|  | Reception | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Autumn | Give children opportunities to meet the Early Learning Goal in Creating with Materials | Mechanical Systems (pivots and levers)  Children will make a moving toy/ pop up character out of paper and card. | Textiles (basic sewing)  Children will make finger puppets by creating templates and joining them together. | Stable structures (weight and shape)  Children will make a Stone Age House using strengthening techniques. | Textiles (sewing)  Children will make purses adding a fastening. | Stable structures (woodwork)  Children will make a bird box/hedgehog house/bug hotel with a frame structure.  **At college** | Textiles  Children will make a bag/cushion using different stitches to decorate. |
| Spring | Give children opportunities to meet the Early Learning Goal in Creating with Materials | Stable structures  Children will make a chair for baby bear to sit on. | Cooking and Nutrition  Children will make fruit smoothies using the skills from year 1 and thinking about flavour combinations. | Mechanical systems (moving parts)  Children will make puppets using pneumatic mechanisms. | Structures (beams and pillars)  Children will build an aqueduct focusing on strengthening. | Mechanical systems (levers, pulleys and CAMs)  Children will make a moving toy. | Cooking and Nutrition  Children will make a healthy lunch focusing on which food is sourced locally and seasonal ingredients. |
| Summer | Give children opportunities to meet the Early Learning Goal in Creating with Materials | Cooking and Nutrition  Children will make fruit kebabs using basic cutting skills. | Mechanical Systems (axles)  Children will make a toy car. | Cooking and Nutrition  Children will make food from the Shanghai Dynasty | Inventions  Electrical components  Children will make a wire buzz game using an electrical circuit. | Cooking and Nutrition  Children will make Mayan theme dishes e.g. chilli using skills built on in Year 3. | Mechanical and electrical systems- computer programmed  **At college** |