

## Long Term Overview – Design Technology

*With Design and Technology we can develop a brighter future.*

|     | Autumn                                                                                                                                            |                                                                                                          | Spring                                                                                                            |                                                                                                                                                                                    | Summer                                                                                                                                                                                                                                                                                       |                                                                                                                     |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Yr1 | <b>Structures/Mechanisms</b><br>Why do windmills go round and round?<br>Book: A Place Called Home (Kate Baker)<br>Song: Windmill In Old Amsterdam |                                                                                                          | <b>Textiles</b><br>How can I make a puppet?<br>Book: Little Red Riding Hood, and a selection of traditional tales |                                                                                                                                                                                    | <b>Cooking and Nutrition</b><br>Where do fruits come from? Can they be eaten in different ways?<br>Book: Where does my food come from? (Annabel Karmel), Oliver's Fruit Salad (Vivienne French), Which Food Will You Choose (Claire Potter)<br>Lift & Look Fruits & Vegetables (Kew Gardens) |                                                                                                                     |
| Yr2 |                                                                                                                                                   | <b>Structures</b><br>How can we make Baby Bear's chair stronger?<br>Book: Goldilocks and The Three Bears |                                                                                                                   | <b>Mechanisms</b><br>(wheels and axles)<br>Do wheels only work on vehicles?<br>Book: Mr Ferris & His Wheel (Kathryn Gibbs Davis)<br>Video: Bob The Builder (season 19, episode 36) |                                                                                                                                                                                                                                                                                              | <b>Mechanisms</b><br>(levers, linkages and pivots)<br>How can I make a toy move?<br>Book: Selection of pop-up books |
| Yr3 | <b>Structures</b><br>Landmarks: Can we recreate famous buildings from around the world?<br>Book: The City Atlas                                   |                                                                                                          | <b>Digital World</b><br>Wearable Technology<br>What makes computer aided design so great?                         |                                                                                                                                                                                    | <b>Cooking and Nutrition</b><br>Why should the food we eat change with the seasons?<br>Book: The Farm That Feeds Us: A Year In The Life Of An Organic Farmer (Nancy Castaldo), Welcome To Our Table (Laura Mucha), World Of Food (Sandra Lawrence), Before We Eat (Pat Brisson)              |                                                                                                                     |
| Yr4 |                                                                                                                                                   | <b>Structures</b><br>(Pavilions)<br>How can we strengthen frame structures?                              |                                                                                                                   | <b>Mechanisms</b><br>Why are some cars faster than others?<br>Book: Selection of non-fiction books about transport, specifically cars                                              |                                                                                                                                                                                                                                                                                              | <b>Electrical Systems</b><br>(light)<br>How do torches work?                                                        |
| Yr5 | <b>Cooking and Nutrition</b><br>Can I make dinner?<br>Book: a selection of children's cookery books, Mr Wolf's Pancakes, The Disgusting Sandwich  |                                                                                                          | <b>Electrical Systems</b><br>(motors)<br>How does evaluating help me to problem solve?                            |                                                                                                                                                                                    | <b>Mechanisms</b><br>Pop Up Books<br>How can I make an interactive pop-up book?<br>Book: The Colour Monster pop up book                                                                                                                                                                      |                                                                                                                     |
| Yr6 |                                                                                                                                                   | <b>Textiles</b><br>How can I make a themed stuffed toy? (linked to evacuees)                             |                                                                                                                   | <b>Structures</b><br>What mechanisms can be found at the playground?                                                                                                               |                                                                                                                                                                                                                                                                                              | <b>Digital World</b><br>How can technology be used to help us to protect the planet?                                |