**Navigation Primary Design and Technology LTP**

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| **EYFS** | These opportunities happen both inside and outside learning throughout the year.  • Make imaginative and complex ‘small worlds’ with blocks and construction kits, such as a city with different buildings and a park.  • Explore different materials freely, in order to develop their ideas about how to use them and what to make.  • Develop their own ideas and then decide which materials to use to express them.  • Create closed shapes with continuous lines, and begin to use these shapes to represent objects  • Explore, use and refine a variety of artistic effects to express their ideas and feelings.  • Return to and build on their previous learning, refining ideas and developing their ability to represent them.  • Create collaboratively, sharing ideas, resources and skills.  • Creating with Material-  • Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.  • Share their creations, explaining the process they have used. | | |
|  | **Autumn** | **Spring** | **Summer** |
| **Year 1** | Strengthening materials Science Link  Projects on a Page Focus- freestanding Structures- playgrounds  Charles Wicksteed | Cooking and Nutrition- Its breakfast time!  What makes a healthy breakfast?  Focus on preparing soft fruit  Porridge/overnight oats and yoghurt.  Mary Berry | Lever and linkages  Moving Pictures Projects on a Page -Mechanisms Sliders and Levers  Rob Campbell- pop up books.  Dear zoo |
| **Year 2** | Cooking and Nutrition- Its Party Time!  How can we make a healthy party snack?  Preparing fruit and vegetables and making spring rolls /cheese straws.  Eatwell Guide/Food for Life | Transporting a toy, note or object around the classroom  Projects on a Page -Mechanisms  Wheels and Axles  Henry Food | Textiles – Joining  Projects on a page – Templates and joining  Walter Wilkinson Puppeteer  Local -Mackinnion and Saunders |
| **Year 3** | Levers and linkages  Projects on a Page Mechanisms  Various Designs | Frames and Structures  Construct 3d shapes Maths Link-nets  Projects on a Page 2d shape to 3d product using CAD-  Purple Mash -create an Easter egg box  Apple products | Cooking and Nutrition- Its time for a treat!  Making/Designing afternoon tea scones-savoury and sweet.  Prue Leith |
| **Year 4** | Electrical system  Circuits and Switches –  Lanterns project on a page  Caroline Haslett-engineer | Textiles –2D shape to 3D shape  Pencil case projects on a page  Patrick Grant/Tom Daley | Cooking and Nutrition- A Lovely Lunch! Pizza and salad.  Jamie Oliver/Gino D’Acampo |
| **Year 5** | Mechanical Systems Science Link  Projects on a Page Mechanical Systems Pulleys or Gears  Fairgrounds  William Kamkwamba -inventor | Cooking and Nutrition  -Dinner is served!  Soup and Bread  Nadia Hussain/Paul Hollywood | Frames and Structures –  Project on the page- shelter design using Tinker Cad  Ian Simpson |
| **Year 6** | Cooking and Nutrition  Take Away Time!  Creating street food on a South American theme.  Research own products. | Crumble alarm project  Electrical systems: Monitoring and control (DT)  Kenneth Shinozuka | Textiles-Combining different fabric shapes. Inc computer aided design. Carrier-eg. Tablet or mobile phone.  Dame Vivienne Westwood |