**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 LinkProjects on a Page Focus- freestanding Structures- playgroundsCharles Wicksteed | Cooking and Nutrition- Its breakfast time!What makes a healthy breakfast?Focus on preparing soft fruitPorridge/overnight oats and yoghurt.Mary Berry | Lever and linkagesMoving Pictures Projects on a Page -Mechanisms Sliders and LeversRob 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 classroomProjects on a Page -MechanismsWheels and AxlesHenry Food | Textiles – JoiningProjects on a page – Templates and joiningWalter Wilkinson PuppeteerLocal -Mackinnion and Saunders |
| **Year 3** | Levers and linkagesProjects on a Page MechanismsVarious Designs | Frames and StructuresConstruct 3d shapes Maths Link-netsProjects on a Page 2d shape to 3d product using CAD-Purple Mash -create an Easter egg boxApple products | Cooking and Nutrition- Its time for a treat!Making/Designing afternoon tea scones-savoury and sweet.Prue Leith |
| **Year 4** | Electrical systemCircuits and Switches –Lanterns project on a pageCaroline Haslett-engineer | Textiles –2D shape to 3D shapePencil case projects on a pagePatrick Grant/Tom Daley | Cooking and Nutrition- A Lovely Lunch! Pizza and salad.Jamie Oliver/Gino D’Acampo |
| **Year 5** | Mechanical Systems Science LinkProjects on a Page Mechanical Systems Pulleys or GearsFairgroundsWilliam Kamkwamba -inventor | Cooking and Nutrition-Dinner is served!Soup and BreadNadia Hussain/Paul Hollywood | Frames and Structures –Project on the page- shelter design using Tinker CadIan Simpson |
| **Year 6** | Cooking and NutritionTake Away Time!Creating street food on a South American theme.Research own products. | Crumble alarm projectElectrical 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 |