



Year Group	Topic	Fundamental knowledge	Vocabulary
<b>Nursery</b>	Goldilocks The Very Hungry Caterpillar Humpty Dumpty	<p><b><u>Textiles:</u></b> I can make simple models which express my ideas using one-handed tools and equipment.</p> <p><b><u>Food and Nutrition:</u></b> I can make healthy choices about food, create a fruit dish with support and consume my products using a knife and food.</p> <p><b><u>Construction:</u></b> I can explore how a ramp works, using a range of vehicles to test it out and then building my own based on what I have learnt for egg rolling.</p>	Construct Stack Build Balance Adapt Shape Join Props Role-play
<b>Reception</b>	The Night Sky Growing Storyland	<p><b><u>Construction:</u></b> I can make imaginative 'Small World' rockets/aliens with blocks and construction materials.</p> <p><b><u>Food and Nutrition:</u></b> I can recognise that healthy eating supports my overall health and well-being and can make a healthy snack.</p> <p><b><u>Textiles:</u></b> I can safely use and explore materials and tools to create my own storyland character puppet and share my creation with others, explaining the process I took.</p>	Materials Tools Techniques Safety Design Texture Combined Features
<b>Year 1</b>	Amazing Animals Seaside Homes and Houses	<p><b><u>Textiles:</u></b> I can cut and join materials and know how to make a slider</p> <p><b><u>Food and Nutrition:</u></b> I can explain the journey of where some foods come from, identifying healthy foods and more familiarly ones I eat at home. I can use simple tools to prepare foods safely.</p> <p><b><u>Construction:</u></b> I can create a mock-up using pictures and words of my product to describe my ideas, asking simple questions about how my design can be made more stable.</p>	Levers Sliders Mechanism Nutrients Fruit

## FUNDAMENTAL KNOWLEDGE OBJECTIVES - DT



Pinner Wood School



<b>Year 2</b>	Katie Morag  Travel and Transport  *One-off Florence Lamps*  Dips and Dippers	<p><b><u>Textiles:</u></b> I can generate and develop ideas, create and evaluate a mail bag, based on a design criteria.</p> <p><b><u>Construction and Mechanisms:</u></b> I can design, develop, create and evaluate a moving vehicle using wheels and axels and a coping saw.</p> <p><b><u>Food and Nutrition:</u></b> I can understand that all food has to be farmed, grown and caught and the importance of a variety of food in a healthy balanced diet. I can create my own dip, preparing foods safely.</p>	Stability Design Mock-up Evaluate Axel Wheel Chassis Dips Dippers
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Year Group	Topic	Objectives	Vocabulary
<b>Year 3</b>	Life on our Island  Mountains  Sandwiches	<p><b><u>Textiles:</u></b> I can generate and develop ideas based on existing products to create and evaluate a functional travel pillow.</p> <p><b><u>Construction and Mechanisms:</u></b> I can create, develop and strengthen my kite using diagonal struts and use sketches, diagrams and prototypes to design and evaluate.</p> <p><b><u>Food and Nutrition:</u></b> I can prepare a sandwich using a wider range of ingredients and cookery techniques, drawing on the different food groups and my understanding of the journey my ingredients have taken.</p>	<p>Cross-sectional diagram Seam Struts Prototype Struts Diagrams Annotated Sketches</p>
<b>Year 4</b>	Magic light box  Global Goals - Deforestation  Edible Gardens	<p><b><u>Electrical Systems:</u></b> I can understand and use electrical systems to design and create a magic light box ensuring it is functional and displays aesthetic qualities.</p> <p><b><u>Construction and Mechanisms:</u></b> I can use my knowledge of existing products to evaluate and design a functional and appealing product for a particular purpose and audience, using exploded diagrams and techniques to strengthen structures.</p> <p><b><u>Food and Nutrition:</u></b> I can read and follow recipes which involve several processes, skills and techniques to prepare a healthy balanced meal, using seasonal and locally produced food.</p>	<p>Linkage Pivot Conductor Insulator Toggle switch</p>
<b>Year 5</b>	Marvellous Mayans  Rivers  Granola Bars	<p><b><u>Textiles:</u></b> I can create prototypes to evaluate my design and, to inform step by step plans for my final product; showcasing my knowledge of different materials, tools and techniques.</p> <p><b><u>Construction and Mechanisms:</u></b> I can understand how to use more complex mechanical systems (gears, pulleys, cams, levers and linkages)</p> <p><b><u>Food and Nutrition:</u></b> I can use my knowledge of the main food groups, nutrients and how foods are sourced to undertake research and preparation of my own innovative product.</p>	<p>Healthy Snack Compression Tension Mock-up Specification</p>



<p><b>Year 6</b></p>	<p>Soulful South America Crafty Criminals Night light</p>	<p><b><u>Food and Nutrition:</u></b> I can research, plan, prepare and cook a savoury dish, applying my knowledge of a healthy, varied diet, information of food labels and skills that I have learnt.</p> <p><b><u>Construction and Mechanisms:</u></b> I can use my knowledge of materials, techniques, structures, famous designs and programming to refine and rework, monitor and control my product to improve its functional and aesthetic qualities.</p> <p><b><u>Electrical Systems:</u></b> I can use my technical knowledge, accurate skills and my understanding of computing to programme and problem solve during the making of my night light in order to make changes.</p>	<p>Gear Pulley Drive belt Motor spindle</p>
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