

Apley Woods DT Long Term Projects Plan
2023-2024

	Autumn Term	Spring Term	Summer Term
EYFS	<p>Food Project</p> <p>Investigate foods from around the world.</p> <p>Complete a series of investigative tasks to explore healthy foods.</p>	<p>Bird Feeder (structures)</p> <p>Designing and making a bird feeder for a bird.</p> <p>(Measuring, marking out, joining and application of Art and Design techniques)</p>	<p>Travel</p> <p>(Automotive, Marine Engineering, Aerospace)</p> <p>Design and make products that travel by land, sea and air.</p> <p>For example: Make a car (using construction toys, wheel and axle) Make a straw rocket (shell structure, using NETs) Make a sailing boat (material properties)</p>
Year 1	<p>Sustainable Project (textiles)</p> <p>To design a product using recycled materials.</p> <p>Christmas decorations (3D structures, Shapes)</p>	<p>Make a Toy Car (mechanisms)</p> <p>Design and make a moving toy car.</p> <p>(Wheel and axle, structures, animated parts)</p>	<p>Food Project</p> <p>Design and make healthy snacks. (Selecting healthy food, washing, cutting.)</p>
Year 2	<p>Habitats (structures)</p> <p>Design and make a range of habitats out of a range of materials and joining techniques. (Making a shell (sheet), frame (parts), mass (solid).)</p>	<p>Food Project</p> <p>Research food that astronauts eat. How do you get your 5 a day in space?</p>	<p>Puppets (textiles)</p> <p>Design and make a puppet for exotic zoo or Hoo Zoo gift shop. (Templates, patterns and joining techniques)</p>
Year 3	<p>Food Project</p> <p>Design and make salads from around Europe. (Recap knife skills, adding heat)</p>	<p>Stone Age and Iron Age Project (mechanisms)</p> <p>Design and make mechanical devices to support in moving materials for building materials (Wheel and axle, Crane, Lift - link to science forces reduces force needed)</p>	<p>Money Pouch (textiles)</p> <p>Design and make a pouch to hold money.</p>
Year 4	<p>Make a Board Game (electronics)</p> <p>Designing and making a game (simple circuits, structures)</p>	<p>Food Project</p> <p>Exploring the different ways to cook using heat (bake, grill, fry, boil, steam, open fire) (potato)</p>	<p>Interactive Exhibit (mechanisms)</p> <p>Using levers, sliders, and linkages. Interactive museum exhibit (display) to educate the general public about the Saxons.</p>

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<p>Year 5</p>	<p>Food Project Design and make a soup or a stew.</p>	<p>F1 in Schools (CAD/Structures/Mechanism) Design and make an F1 race car as part of the national competition. Designing skills, Making, Evaluation, Testing, data collection. Design and make uniform for the competition (textiles)</p>	<p>Moving Toys (mechanical systems and electrical systems) Design and make a mechanical toy (if electronics not covered revisit in Year 6)</p>
<p>Year 6</p>	<p>Bridges (Structure - Reinforced) - Design and make a bridge.</p>	<p>Wonderful world (investigation) Investigate a range of key designers from around the world that are famous for: <ul style="list-style-type: none"> - Chefs - Structural engineers - Mechanical engineers - Product designers - Architects - Electrical engineers etc.... - Textiles designers </p>	<p>Food Project Designing food for people with dietary needs. (Needs through culture or medical or choice) Either investigate or make.</p>