

Lickey Hills Primary School and Nursery  
**Design and Technology Whole School Yearly Overview:**



	AUTUMN 2	SPRING 2	SUMMER 2
EYFS - (Continuous Provision throughout each term)	<p><b><u>Marvellous Me</u></b>            Design, make and evaluate a Diva Lamp.            Make a 3D sculpture of a firework.            Explore harvest to identify where our food comes from.            Explore and understand hygiene when working with food and liquids.</p>	<p><b><u>All Things Bright and Beautiful</u></b>            Explore materials and how they can be used to make a collage - twist, scrunch.            Explore different joining techniques to make a moving flower.            Design, make and evaluate a 3D sculpture of a dragon using papier-mache.            Explore the changing state of food when it is heated.</p>	<p><b><u>Underground, Overground, Wandering Free</u></b>            Use a variety of different materials to create a seaside collage.            Use clay to create a 3D sculpture.            Explore joining techniques to plan, make and evaluate a string puppet.</p>
YEAR 1	<p><b><u>Sliders and Levers Mechanisms</u></b>            Design, make and evaluate a moving Christmas card or tree decoration that uses sliders and levers.</p>	<p><b><u>Preparing Fruit Cooking and Nutrition</u></b>            Recognise Food Hygiene.            Explore and understand the Eatwell Guide Food Plate - identify a balanced, varied diet.            Create a healthy snack:            Fruit Kebabs, Fruit Salads and Smoothies.</p>	<p><b><u>Freestanding Structures Structures</u></b>            Explore different materials and structure joins to design, make and evaluate a free-standing structure to replace the Lickey Hills Monument.</p>
YEAR 2	<p><b><u>Preparing Vegetables Cooking and Nutrition</u></b>            Recognise Food Hygiene.            Explore and understand the Eatwell Guide Food Plate - identify a balanced, varied diet.            Identify vegetables in season.            Create a healthy meal involving vegetables:            Vegetable soup and a Vegetable Casserole.</p>	<p><b><u>Wheels and Axles Mechanisms</u></b>            Explore construction of wheels and axles.            Explore aerodynamics (NASA project)            Design, make and evaluate a tourist mode of transport that could take visitors around the Lickey Hills Country Park.</p>	<p><b><u>Templates and Joining Techniques Textiles</u></b>            Explore and use a variety of joining techniques including: sewing, stapling, gluing, taping to create a hand held face puppet.            Experiment with different materials for aesthetic purposes.</p>
YEAR 3	<p><b><u>Shell Structures Structures</u></b>            Investigate different materials and how they can be strengthened - corrugated, folded, laminated.            Design, make and evaluate a Christmas Box to hold a Christmas present.</p>	<p><b><u>Healthy and Varied Diet - Fats, Sugars and Dairy Cooking and Nutrition</u></b>            Recognise Food Hygiene.            Apply their knowledge of a healthy and varied diet.            Explore different alternatives to sugar and dairy products.            Design, make and evaluate a new fudge product.  <span style="background-color: #00FF00;">(Yr. 3 Science - Healthy Eating)</span></p>	<p><b><u>Levers and Linkages Mechanisms</u></b>            Explore different pivots: fixed and loose            Design, make and evaluate a litter picker to use within the school grounds.</p>
YEAR 4	<p><b><u>Electrical Systems Electrical design</u></b>            Explore simple circuits including: electrical components, circuit symbols and circuit diagrams.            Identify Electrical Safety.            Design, make and evaluate a Christmas Light Up Sign.  <span style="background-color: #00FF00;">(Yr. 4 Science - Electricity)</span></p>	<p><b><u>Healthy and Varied Diet - Carbohydrates Cooking and Nutrition</u></b>            Apply their knowledge of a healthy and varied diet as explained by the Eatwell Guide Food Plate.            Recognise Food Hygiene.            Design, make and evaluate different healthy food types involving carbohydrates: Healthy Tortillas using flatbread, Rice Dish, Scones.</p>	<p><b><u>2D Shape - 3D Product Textiles</u></b>            Explore different joining sewing stitches: over stitch, backstitch and a running stitch.            Create a bookmark using varied stitch techniques.            Design, make and evaluate a button fastened pencil case.</p>
YEAR 5	<p><b><u>Celebrating food culture Cooking and Nutrition</u></b>            Apply their knowledge of a healthy and varied diet as explained by the Eatwell Guide Food Plate.            Recognise Food Hygiene.            Design, make and evaluate different foods involving herbs/spices - Cinnamon Biscuits, Ginger Cookies, Gingerbread Houses.</p>	<p><b><u>Pulleys and Gears Mechanisms</u></b>            Build a working circuit that involves a pulley and motor.            Design, make and evaluate a motorised toy car.</p>	<p><b><u>Frame Structures Structures</u></b>            Explore the different types of Frame Structures: Rigid, Gable Ended, Braced Structures and Tent Structures.            Design, make and evaluate a bird hide that can be added to the Forest School area.</p>
YEAR 6	<p><b><u>Electrical Systems Electrical Circuits</u></b>            Explore renewable energy sources - Wind Turbines.            Plan, make and evaluate a wind turbine that can power a lightbulb.</p>	<p><b><u>Combining different fabric shapes Textiles</u></b>            Explore different joining sewing stitches: over stitch, backstitch, cross stitch and blanket stitch.            Design, make and evaluate a mobile phone case.</p>	<p><b><u>Celebrating food seasonality Cooking and Nutrition</u></b>            Recognise Food Hygiene.            Apply their knowledge of a healthy and varied diet as explained by the Eatwell Guide Food Plate.            Explore and understand the difference between Vegetarian diets: Vegan and Pescatarian diets.            Design, make and evaluate vegetarian food in season: Salad, Vegetable soups and Vegetable Pizza.</p>

**NB. The Language Base has not been included as part of the Whole School Overview as the pupils attend their mainstream setting in the majority of cases.**