



Design Technology 2024- 2025

	Nursery		Reception	
	Statement	In practice	Statement	In practice
Mechanisms	Explore how things work	Toys Class equipment Items of interest [Curiosity Cabinet]		
Construction	Make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park. Join different materials and explore different textures.	Lego/skittle bricks, duplo etc Large outdoor equipment Obstacle course items 'Making'/'Craft' Table 'Playdough' table Junk modelling Large cardboard Den building Equipment/tools shelf Small world 'Be the builder' Construction corner		Junk modelling Challenges in construction [eg build the strongest bridge] Obstacle course Den building Small world Mark malign in play
Baking		Weekly Skills focus baking: Autumn Term Spreading Cutting Grating Slicing chopping Spring Term Melting Freezing Heating Cooling Mixing Summer Term Planning Preparing Presenting Cookery Corner Weekly baking/skills practice Weekly prepare Friday snack		Weekly Skills focus baking. Prepare own healthy snack.

	Aut 1	Aut 2	Spring 1	Spring 2	Sum 1	Sum 2
Year 1	Biscuits Select the appropriate tool for a simple practical task/ With help, measure mark out, cut and shape a range of materials. Specific tools are	Vehicles (Moving pictures) Designer – Henry Ford Use a range of mechanisms (levers, sliders, wheels and axles) in models or products.	Nutrition Name and explore a range of everyday products and describe how they are used. Everyday products are objects that are used routinely at	Design, make & evaluate rockets Select and use a range of materials, beginning to explain their choices. Different materials are suitable for	Cookery Corner – Sandwiches and wraps	

	<p>used for particular purposes. For example, scissors are used for cutting and glue is used for sticking.</p> <p>Cookery Corner - Dinosaur biscuits</p>	<p>A mechanism is a device that takes one type of motion or force and produces a different one. A mechanism makes a job easier to do. Mechanisms include sliders, levers, linkages, gears, pulleys and cams.</p>	<p>home and school, such as a toothbrush, cup or pencil. All products are designed for a specific purpose</p> <p>Cookery Corner – Design and create a smoothie</p>	<p>different purposes, depending on their specific properties. For example, glass is transparent, so it is suitable to be used for windows.</p>		
Year 2	<p>Food and Nutrition Cookery Corner: Honey Flapjacks.</p> <p>Identify the origin of some common foods.</p> <p>Understand that all food comes from plants and animals.</p>		<p>Food and Nutrition Cookery Corner Pirate Pasties.</p> <p>Prepare ingredients by peeling, grating, chopping and slicing.</p> <p>Some ingredients need to be prepared before they can be cooked or eaten. There are many ways to prepare ingredients: peeling skins using a vegetable peeler, such as potato skins; grating hard ingredients, such as cheese or chocolate, chopping vegetables, such as onions and peppers and slicing foods, such as bread and apples.</p>	<p>Bookmarks (Sewing and Stitching)</p> <p>Demonstrate how to cut, shape and join fabric to make a simple product. Use basic sewing techniques.</p> <p>Cutting and joining textiles. A running stitch is a basic stitch that is used to join fabric. It is made by passing a needle in and out of fabric at an even distance.</p>		<p>Design, create and evaluate a 3D sculpture of a building</p> <p>Explain why a designer or inventor is important.</p> <p>Many key individuals have helped to shape the world. These include engineers, scientists, designers, inventors and many other people in important roles.</p> <p>Food and Nutrition Fruit Kebabs</p>
Year 3	<p>Cookery Corner: Stone Age Soup</p> <p>Design and make a</p>	<p>Iron Man Project</p> <p>Explore and use a range of</p>	<p>Cookery Corner: Chocolate-coated flapjacks</p>	<p>Greek designer: Archimedes.</p>		<p>Volcanoes</p> <p>Create shell or frame structures</p>

	<p>Healthy Stone Age soup.</p>	<p>mechanisms (levers, sliders, axles, wheels and cams) in models or products.</p> <p>Levers consist of a rigid bar that rotates around a fixed point, called a fulcrum. They reduce the amount of work needed to lift a heavy object. Sliders move from side to side or up and down, and are often used to make moving parts in books. Axles are shafts on which wheels can rotate to make a moving vehicle. Cams are devices that can convert circular motion into up-and-down motion.</p>	<p>Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars).</p> <p>There are five main food groups that should be eaten regularly as part of a balanced diet:</p> <p>fruit and vegetables;</p> <p>carbohydrates (potatoes, bread, rice and pasta);</p> <p>proteins (beans, pulses, fish, eggs and meat);</p> <p>dairy and alternatives (milk, cheese and yoghurt) and fats (oils and spreads).</p> <p>Foods high in fat, salt and sugar should only be eaten occasionally as part of a healthy, balanced diet.</p>			<p>using diagonal struts to strengthen them.</p> <p>Shell structures are hollow, 3-D structures with a thin outer covering, such as a box.</p> <p>Frame structures are made from thin, rigid components, such as a tent frame. The rigid frame gives the structure shape and support. Diagonal struts can strengthen the structure.</p>
Year 4	<p>Textiles (Digestion Tshirt) DT Focus. Vivienne Westwood.</p> <p>Use annotated sketches and exploded diagrams to test and communicate their ideas.</p>	<p>Cookery Corner: Taste and Evaluate different cheese/ fish/ pasta</p>	<p>Model Making: Totem Pole Design</p> <p>Investigate and identify the design features of a familiar product.</p> <p>Design features are the aspects of a product's design that</p>	<p>Electric Game. (Link to Science-Electricity)</p> <p>An electric circuit can be used in a model, such as a lighthouse. It can be controlled using a switch.</p> <p>Incorporate a simple</p>	<p>Cookery Corner: Design and make a fish, pasta bake.</p>	

	Annotated sketches and exploded diagrams show specific parts of a design, highlight sections or show functions. They communicate ideas in a visual, detailed way.		the designer would like to emphasise, such as the use of a particular material or feature that makes the product easier to use or more durable.	series circuit into a model.		
Year 5	<p>Cooking and nutrition/ Cookery Corner</p> <p>Describe what seasonality means and explain some of the reasons why it is beneficial.</p> <p>Seasonality is the time of year when the harvest or flavour of a type of food is at its best. Buying seasonal food is beneficial for many reasons: the food tastes better; it is fresher because it hasn't been transported thousands of miles; the nutritional value is higher; the carbon footprint is lower, due to reduced transport; it supports local growers and is usually cheaper.</p>		<p>Making Models</p> <p>Select and combine materials with precision. Knowledge</p> <p>Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques.</p>		<p>Designing rides; Programming models; Mechanical systems. Werner Stengel-Rollercoaster designer.</p> <p>Link a physical device to a computer or tablet so that it can be controlled (such as changing motor speed or turning an LED on and off) by a program.</p> <p>Equipment and devices can be controlled by pressing buttons on a control panel, such as on a washing machine or microwave.</p>	<p>Making planters; Making structures</p> <p>Select and combine materials with precision.</p> <p>Materials should be cut and combined with precision. For example, pieces of fabric could be cut with sharp scissors and sewn together using a variety of stitching techniques.</p>
Year 6	<p>Healthy recipes</p> <p>Plan a healthy daily diet,</p>	<p>Cookery Corner:</p> <p>Taste and evaluate</p>		<p>Judder Robots and Cars.</p> <p>Designer- Henry</p>	<p>Enterprise Project</p> <p>Design criteria</p>	<p>Cookery Corner:</p> <p>Design and Create a</p>

	<p>justifying why each meal contributes towards a balanced diet.</p> <p>Eating a balanced diet is a positive lifestyle choice that should be sustained over time. Food that is high in fat, salt or sugar can still be eaten occasionally as part of a balanced diet.</p>	different savoury pies.		<p>Royce.</p> <p>Mechanical systems can include sliders, levers, linkages, gears, pulleys and cams. Other mechanisms include pneumatics and hydraulics.</p> <p>Explain and use mechanical systems in their products to meet a design brief.</p>	<p>should cover the intended use of the product, age range targeted and final appearance. Ideas can be communicated in a range of ways, including through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.</p> <p>Skill Develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a range of ways.</p> <p>Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and</p>	<p>three- course meal, starter (fish), main (pie) and dessert (fruit based).</p>
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