



Foundation Stage

	Nursery		Reception	
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: <u>Autumn Term</u> Spreading Cutting Grating Slicing chopping <u>Spring Term</u> Melting Freezing Heating Cooling Mixing <u>Summer Term</u> Planning Preparing Presenting Cookery Corner Weekly baking/skills practice Weekly prepare Friday snack		Weekly Skills focus baking. Prepare own healthy snack.

	Autumn	Spring		Summer
Year 1	Vehicles (Moving pictures) Designer – Henry Ford Use a range of mechanisms (levers, sliders, wheels and axles) in models or products. 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. Cookery Corner – Biscuits	Design, make & evaluate rockets Select and use a range of materials, beginning to explain their choices. Different materials are suitable for different purposes, depending on their specific properties. For example, glass is transparent, so it is suitable to be used for windows. Cookery Corner – Design and create a smoothie		Nutrition Name and explore a range of everyday products and describe how they are used. Everyday products are objects that are used routinely at home and school, such as a toothbrush, cup or pencil. All products are designed for a specific purpose Cookery Corner – Taste and evaluate different sandwiches and wraps
Year 2	Food and Nutrition Cookery Corner: Honey Flapjacks. Identify the origin of some common foods. Understand that all food comes from plants and animals.	Food and Nutrition Cookery Corner Pirate Pasties. Prepare ingredients by peeling, grating, chopping and slicing. 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	Bookmarks (Sewing and Stitching) Demonstrate how to cut, shape and join fabric to make a simple product. Use basic sewing techniques. 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	Design, create and evaluate a 3D sculpture of a building Explain why a designer or inventor is important. Many key individuals have helped to shape the world. These include engineers, scientists, designers, inventors and many other people in important roles. Food and Nutrition Fruit Kebabs

		skins; grating hard ingredients, such as cheese or chocolate, chopping vegetables, such as onions and peppers and slicing foods, such as bread and apples.	even distance.	
Year 3	Cookery Corner: Stone Age Soup Design and make a Healthy Stone Age soup. Iron Man Project Explore and use a range of mechanisms (levers, sliders, axles, wheels and cams) in models or products. 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.	Cookery Corner: Chocolate-coated flapjacks Identify the main food groups (carbohydrates, protein, dairy, fruits and vegetables, fats and sugars). There are five main food groups that should be eaten regularly as part of a balanced diet: fruit and vegetables; carbohydrates (potatoes, bread, rice and pasta); proteins (beans, pulses, fish, eggs and meat); dairy and alternatives (milk, cheese and yoghurt) and fats (oils and spreads). Foods high in fat, salt and sugar should only be eaten occasionally as part of a healthy, balanced diet. Greek designer: Archimedes.		Cookery Corner: Design and create an egg-based dish. Volcanoes Create shell or frame structures using diagonal struts to strengthen them. Shell structures are hollow, 3-D structures with a thin outer covering, such as a box. 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.

Year 4	Textiles (Digestion Tshirt) DT Focus. Vivienne Westwood. Use annotated sketches and exploded diagrams to test and communicate their ideas. Annotated sketches and exploded diagrams show specific parts of a design, highlight sections or show functions. They communicate ideas in a visual, detailed way. Cookery Corner: Taste and Evaluate different cheese/ fish/ pasta	Electric Game. (Link to Science- Electricity) An electric circuit can be used in a model, such as a lighthouse. It can be controlled using a switch. Incorporate a simple series circuit into a model. Cookery Corner: Design and make a fish, pasta bake.	Model Making: Totem Pole Design Investigate and identify the design features of a familiar product. Design features are the aspects of a product's design that 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
Year 5	Cooking and nutrition/ Cookery Corner. Design and make a tropical fruit smoothie Describe what seasonality means and explain some of the reasons why it is beneficial. 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	Making Models Select and combine materials with precision. Knowledge 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. Cookery corner: design and make Egyptian flatbreads.	Designing rides; Programming models; Mechanical systems. Werner Stengel- Rollercoaster designer. 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. Equipment and devices can be controlled by pressing buttons on a control panel, such as on a washing machine or microwave.

	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.		Cookery corner: design and create Fairground foods – cheese paninis, savoury pancakes.
Year 6	Healthy recipes Plan a healthy daily diet, justifying why each meal contributes towards a balanced diet. 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. Cookery Corner: Taste and evaluate different savoury pies.	Judder Robots and Cars. Designer-Henry Royce. Mechanical systems can include sliders, levers, linkages, gears, pulleys and cams. Other mechanisms include pneumatics and hydraulics. Explain and use mechanical systems in their products to meet a design brief. Cookery Corner: Evaluate and taste different fishcakes.	Enterprise Project Design criteria 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. Skill Develop design criteria for a functional and appealing product that is fit for purpose, communicating ideas clearly in a range of ways. Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design. Cookery Corner: Design and Create a three- course meal, starter (fish), main (pie) and dessert (fruit based).