



	Food	Structures	Mechanisms	Textiles	Computing/ Electronics
Year 1	 Sandwiches/ Wraps Cut, peel or grate and assemble ingredients hygienically. Begin to understand that all food comes from plants or animals. Begin to understand that everyone should eat at least five portions of fruit and vegetables every day. 	Cut and shape materials (tear, fold, and curl) using tools provided Build structures, exploring how they can be made stronger, stiffer, and more stable. Glue and join products with a range of materials. Join materials using glue.	 Moving story books Create products using levers and slides. 		 Designing Model a design using software. Begin to design using software.



Year 2	<u>Smoothies</u>	<u>Monuments</u>	Tanks (WW2)	Tie Die Pencil Case with Decoration	
	 Measure or weigh and assemble ingredients. Understand where food comes from. Understand the importance of healthy eating and a balanced diet. Start to understand how to name and sort foods into the five groups. 	 Cut materials accurately and safely. Use a range of joining techniques. Build structures and explore how to make stronger, stiffer, and more stable 	Create products using wheels and axles.	 Colour and decorate textiles using a range of techniques such as printing and adding sequins. Use dip dye techniques. Shape textiles using templates. Join materials using a simple running stitch 	
Year 3	 Measure and cook a variety of ingredients. Use a range of equipment (scales, jugs, spoons etc) Begin to understand how to use a range of techniques such as chopping, slicing, kneading, and baking. Start to understand that a healthy diet is made up from a variety and balance of different food and drink. 	Roman Fort Measure and mark out to the nearest centimetre. Demonstrate a range of joining techniques. Use hinges and combine materials to strengthen. Make a range of cuts and holes. Measure, mark out, cut, score and assemble components with more accuracy. Start to work safely and accurately with a range of simple tools. Choose a range of techniques to construct or repair products.	Winding Mechanisms- Knex Create a product using winding mechanisms. Start to understand that mechanical systems create movement.		Tinker Cad Design Control and monitor models using software designed for this purpose.



		 Explore abstract shape and space. Explore how shapes and negative (empty spaces) can be represented by 3d forms. Manipulate a range of materials, use a range of way to join structures. 			
Year 4	Select appropriate utensils. Follow a recipe. Understand how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source. Know that a healthy diet is made up from a variety and balance of different food and drink. Know that to be active and healthy, food and drink are needed to provide energy for the body.		Pneumatics Choose appropriate mechanisms for a product. Know how mechanical systems create movement.	Cushion Understand the need for a seam allowance and create an object with one. Select appropriate techniques to decorate textiles. Join textiles using running stitch. Start to measure, tape or pin, cut and join fabric with some accuracy Use the qualities of materials to create suitable and visual and tactile effects in the decoration of textiles.	Torch • Create parallel circuits. Understand how more complex electrical circuits and components can be used to create functional products.



Year 5	Seasonal Bread Understand the importance of correct storage and handling of ingredients including microorganisms. Demonstrate a range of baking and cooking techniques, using where appropriate, a heat source. Begin to understand that seasons may affect the food available. Begin to understand that different food and drink contain different substances – nutrients, water, and fibre – that are needed for health.	Cut materials accurately and refine the finish with appropriate tools eg/sanding wood or using a more precise scissor cut after using a rough one. Measure and mark out materials to the nearest millimetre. Understand how to reinforce and strengthen a 3d framework. Use a range of practical skills to independently create products e.g./ cutting, drilling, screwing, nailing, gluing, filling, and sanding.	Gears with a simple circuit including motor. Knex (London Eye) Convert rotary motion to linear e.g./make a moving toy using a cam. Understand how mechanical systems such as cams or pulleys or gears create movement.	 Join materials with a combination of stitching techniques such as back stitch for seams and running stitch to attach decoration. With confidence, pin, sew and stitch materials together to create a product. 	
Year 6	Measure accurately and calculate ratios of	Mayan playground Show an understanding of the qualities of			Burglar and light Alarm Create circuits from kits which use a variety of
	ingredients to scale up or scale down from a recipe. Create and refine recipes, including ingredients,	materials to choose appropriate tools to cut and shape.			components eg/ LEDs, resistors, transistors and chips.



methods, cooking times and temperatures. • Understand the seasonality of food. • Understand that different food and drink contain different substances –	 Use a range of practical skills to independently create products e.g./ cutting, drilling, screwing, nailing, gluing, filling, and sanding. 		Know how more complex electrical circuits and components can be used to create functional products and how to program a computer to monitor changes in the environment
nutrients, water and fibre — that are needed for health.			 and control their products Write code to control and monitor models or products. Know how more complex electrical circuits and components can be used to create functional products and how to program a
			computer to monitor changes in the environment and control their products. Create circuits from kits which use a variety of components e.g./ LEDs, resistors, transistors and chips.