Petersgate Progression of skills for Design & Technology KS1

	Autumn	Spring	Summer
	Structures - Freestanding	Mechanisms - Sliders & Levers	Food* - Preparing fruit & Vegetables
Year 1	 Know how to make freestanding structures stronger, stiffer and more stable. Know and use technical vocabulary - Structure, wall, tower, framework, base, side, edge, surface, cut, fold, join, fix. Generate ideas based on simple design criteria and their own experiences, explaining what they could make. Develop, model and communicate their ideas through talking, 	 Explore and use sliders and levers. Understand that different mechanisms produce different types of movement. Know and use technical vocabulary – slider, lever, pivot, slot, bridge/guide, Use paper fasteners, masking tape, paper binders, Generate ideas based on simple design criteria and their own 	 Understand where a range of fruit and vegetables come from e.g. farmed or grown at home. Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of <i>The eatwell plate</i>. Know and use technical (equipment & utensils) and sensory vocabulary – Soft, juicy, crunchy, sweet, sour, sticky, smooth,
	 mock-ups and drawings. Plan by suggesting what to do next. Select and use tools, skills and techniques, explaining their choices. – Scissors, hole punch, stapler, glue, string, pipe 	experiences, explaining what they could make. Develop, model and communicate their ideas through drawings and mock-ups with card and paper. Plan by suggesting what to do next.	 sharp, crisp, hard. Design appealing products for a particular user based on simple design criteria. – Fruit product. Generate initial ideas and design criteria through investigating a variety of fruit and vegetables.
	 cleaners, PVA. Select new and reclaimed materials and construction kits to build their structures. Use simple finishing techniques suitable for the structure they are creating. 	 Select and use tools, explaining their choices, to cut, shape and join paper and card. Use simple finishing techniques suitable for the product they are creating. 	Communicate these ideas through talk and drawings. Use simple utensils and equipment to e.g. peel, cut, slice, squeeze, grate and chop safely. Select from a range of fruit and vegetables according to their
	 Explore a range of existing freestanding structures in the school and local environment e.g. everyday products and buildings. Evaluate their product by discussing how well it works in relation to the purpose, the user and whether it meets the original design criteria. 	 Explore a range of existing books and everyday products that use simple sliders and levers. Evaluate their product by discussing how well it works in relation to the purpose and the user and whether it meets design criteria 	characteristics e.g. colour, texture and taste to create a chosen product. Taste and evaluate a range of fruit and vegetables to determine the intended user's preferences. Evaluate ideas and finished products against design criteria, including intended user and purpose.
	Mechanisms - Wheels and Axles	Food* - Healthy & Varied Diet	Textiles - Templates & Joining Techniques
Year 2	Explore and use wheels, axles and axle holders.Distinguish between fixed and freely moving axles.	Understand, name and sort foods into the 5 groups in The Eatwell Plate.	Understand how simple 3-D textile products are made, using a template to create two identical shapes.
	Know and use technical vocabulary - wheel, axle, axle holder, chassis, body, cab, parallel, mechanism, dowel,	*Understand that everyone should eat at least 5 portions of fruit and veg every day.	Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling.
	Generate initial ideas and simple design criteria through talking and using own experiences.	Know and use technical (equipment & utensils) and sensory vocabulary - texture, taste, sweet, sour, hot, spicy, appearance,	Explore different finishing techniques e.g. using painting, fabric crayons, stitching, sequins, buttons and ribbons.
	 Develop and communicate ideas through drawings and mockups. Select from and use a range of tools and equipment to perform 	 smell, preference, greasy, moist, cook, fresh, savoury. (KS2) Design appealing products for a particular user based on simple design criteria. – savoury product? 	Know and use technical vocabulary - template, pattern pieces, mark out, join, decorate, finish, stitches, thread, needle. Design a functional and appealing product for a chosen user
	practical tasks such as cutting and joining to allow movement and finishing. Use junior hacksaw and bench hooks. • Select from and use a range of materials and components such as paper, card, plastic and wood according to their characteristics. • Explore and evaluate a range of products with wheels and axles. • Evaluate their ideas throughout and their products against original criteria.	 Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. Communicate these ideas through talk and drawings. Use simple utensils and equipment to e.g. peel, cut, slice, squeeze, grate, chop, mix, spread and bake safely. (KS2) Prepare and cook a variety of dishes safely and hygienically including the use of a heat source.(KS2) Taste and evaluate a range of fruit and vegetables to determine 	 and purpose based on simple design criteria. Generate, develop, model and communicate their ideas as appropriate through talking, drawing, templates, mock-ups and information and communication technology. Select from and use a range of tools and equipment to perform practical tasks such as marking out, cutting, joining and finishing. Select from and use textiles according to their characteristics. Explore and evaluate a range of existing textile products
	original criteria.	 the intended user's preferences. Evaluate ideas and finished products against design criteria, including intended user and purpose. 	relevant to the project being undertaken. • Evaluate their ideas throughout and their final products against