



Design and Technology Progression Map

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design, make, evaluate and improve	Provide children with a range of materials for children to construct with. Encourage them to think about and discuss what they want to make. Discuss problems and how they might be solved as they arise. Reflect with children on how they have achieved their aims.	Design products that have a definite function for a particular person.	Design and make products, modifying the product as the project evolves.	Produce designs with a clear purpose having explored needs, food packaging. Select materials carefully to suit the design and use.	Refine methods and design as work progresses, constantly reassessing design. Use computer packages to design and model products.	Design by considering the user, prioritising good function before profit. Produce several prototypes each building upon the previous to optimise design.	Produce a good quality finish to products using art techniques
Food	Exposure to healthy alternatives, fruit and vegetables.	Select from and use ingredients according to their characteristics. (fruit kebab/smoothie)		Use correct utensils to hygienically prepare food. Combine and or cook.		Prepare ingredients to be mixed and cooked with focus on the final product.	Understand how to store and handle food ingredients properly. Invent and modify own recipes including ingredients, methods, cooking times and temperatures.
Textiles	Exposure to different materials in different forms and the vocabulary to describe them.	Use a running stitch to join fabric. Use methods such as dyeing, adding sequins or printing alter the appearance of fabric. Make use of template to produce shapes.	Use correct stitch technique to join fabric and decoration to add an aesthetic appearance.	Use the correct stitch to join materials. Add decorative finish using a suitable technique.	Use suitable cutting and shaping techniques. Choose suitable joining techniques.	Use a variety of stitching techniques to join fabrics.	Develop a design, product advertising and creation by picking appropriate skills learned.
Construction	Build and join for varied purposes using different materials; K'nex Lego Stickle Bricks wooden sticks jigsaws Teach children different techniques for joining materials, such as how to use adhesive tape and different sorts of glue.	Practice techniques to join and/or strengthen materials eg , glueing and reinforcing card.	Demonstrate safe use of a given tool. Perform a range of cutting and shaping techniques eg tearing, cutting, folding and curling. Use a range of joining techniques eg gluing, hinges or combining materials to strengthen.	Select appropriate techniques to construct products and apply appropriate methods to support it.		Practice practical skills to a reasonable standard to produce products by developing understanding of support and design.	

Mechanics			Explore and use mechanisms in their products, wheels and axles		Apply understanding of pneumatics to explore power principles.		Combine electronics and mechanics to produce original designs. Use cams to change a rotation into a push/pull movement
Electrical					Construct series and parallel circuits to create a product.		Create circuits using electronics kits that combine a number of parts (e.g. LEDs, resistors, chips etc.)