

DESIGN AND TECHNOLOGY CURRICULUM PROGRESSION

	Units of learning	Design	Make	Evaluate	Technical Knowledge
EYFS	To develop D&T knowledge in EYFS, children have regular opportunities during adult and child led learning to:	Talk about what they would like to make, how they will do it and what they think about it when it is finished.	Make their own creations using a wide range of different materials, fixings and tools which are freely available in continuous provision.	Evaluate what they have made and make changes as appropriate.	Know how to use tools such as scissors, hole punch, string, sellotape, cutters etc.
Year 1	Mechanisms Making a Moving Story Book Structures Construct a Windmill Textiles Puppets	Draw clearly labelled designs, suggesting which parts of their designs will move and how they will appeal to the intended user.	 Make a picture, which meets the design criteria, with parts that move purposefully as planned. Make stable structures, which will eventually support the turbine, out of card, tape and glue. Make functioning turbines and axles that are assembled into the main supporting structure. Join fabrics together using pins, staples or glue. 	Say what is good about their product and what they could do better.	 Identify whether a mechanism is a side-to-side slider or an up-and-down slider and determine what movement the mechanism will make. Know that joining technique means connecting two pieces of material together.
	Food Fruit and vegetables	Design packaging and suggest information to be on there.	Prepare fruits and vegetables to make a smoothie.	Taste and evaluate different food combinations.	Describe fruits and vegetables and explain why they are a fruit or a vegetable. Name a range of places that fruits and vegetables grow.
Year 2	Mechanisms Making a Moving Monster Structures Baby Bear's Chair Textiles Pouches	Design products suitable for a given audience which satisfy a given set of design criteria.	 Select and assemble materials to create their products. Make products that are structurally strong. Prepare and cut fabric to make a pouch from a template. Use a running stitch to join the two pieces of fabric together. Decorate their products using materials provided. 	Evaluate their designs against the design criteria, using this information and the feedback of their peers to choose their best design.	 Know the correct terms for levers, linkages and pivots. Identify man-made and natural structures. Identify stable and unstable structural shapes.
	Food A Balanced Diet	Think of four different wrap ideas, considering flavour combinations.	Construct a wrap that meets the design brief and their plan.	Describe the taste, texture and smell of a given food.	Name the main food groups and identify foods that belong to each group.

DESIGN AND TECHNOLOGY CURRICULUM PROGRESSION

Year 3	Structures Constructing a Castle Electrical Systems Electric Posters Digital World Electronic Charm	 Carry out research to gain ideas for initial designs. Design products with key features that satisfy a given purpose. Begin to use computer aided design. 	 Build a complex structure from simple geometric shapes. Score or cut along lines on the net of a 2D shape. Write a program that initiates a flashing LED panel or pattern. Assemble a product that includes a functional simple circuit. 	Test their product, identify and correct errors as needed. Evaluate their work by answering simple questions.	 Know what 'information design' is and understand its impact. Know what is meant by 'point of sale display'. Know that a castle is made up of multiple 3D shapes.
	Food Eating Seasonally	Design their own tart recipe using seasonal ingredients.	 Understand the basic rules of food hygiene and safety. Follow the instructions within a recipe. 	Suggest points for improvement when making a seasonal tart.	Know that fruits and vegetables grow in countries based on their climates. Know that 'seasonal' fruits and vegetables are those that grow in a given season and taste best then. Know that eating seasonal fruit and vegetables has a positive effect on the environment.
Year 4	Mechanisms Making a Slingshot Car Structures Pavillion Textiles Fastenings	 Write their own set of design criteria for a product. Sketch more than one initial idea. Design a product that meets design criteria and is aesthetically pleasing. 	Select appropriate materials and construction techniques to create a stable, free-standing structure. Make a template for their product. Choose an appropriate stitch they are comfortable with. Produce appropriate products where parts are assembled effectively.	Conduct a trial accurately and draw conclusions and improvements. Evaluate the product on the aesthetics and original design criteria.	 Know that air resistance is the level of drag on an object as it is forced through the air. Know that a 'free-standing' structure is one that can stand on its own. Know the features, benefits and disadvantages of a range of fastening types.
	Food Adapting a recipe	Plan a recipe within a given budget.	Follow a recipe, with some support. Adapt a recipe by adding extra ingredients to it.	Evaluate, compare and suggest improvements.	Describe some of the features of a biscuit based on taste, smell, texture and appearance. Know the following cooking techniques: sieving, creaming, rubbing method, cooling.
Year 5	Mechanisms Making a Pop Up Book Electrical Systems Doodlers Digital World Monitoring Devices	 Research key information and test existing products to develop a list of design criteria for a given purpose. Develop design criteria with consideration for the target user. Explain simply why their product has a certain configuration. 	Assemble the components necessary for all their structures/mechanisms. Use a range of mechanisms to make their product interactive. Create a functional Doodler that creates scribbles on paper with or without a switch. Build a variety of brick models to invent Micro:bit cases.	Explain key pros and cons of virtual modelling vs physical modelling. Evaluate the work of others and receive feedback on their own work.	Know how to use sliders, pivots and folds to create paper-based mechanisms. Know simple circuit components with a basic explanation of their function. Know that a series circuit is assembled in a loop to allow the electricity to flow along one path. Know what monitoring devices are.
	Food What could be healthier?	Design packaging that promotes the ingredients of the bolognese.	 Work as a team to amend a bolognese recipe with healthy adaptations. Follow a recipe to produce a healthy bolognese sauce. 	Evaluate the end meal in terms of nutritional values.	Understand how beef gets from the farm to our plates. Know what a 'healthy meal' means. Notice the nutritional differences between different products.

DESIGN AND TECHNOLOGY CURRICULUM PROGRESSION

Year 6	Structures Playgrounds Textiles Waistcoats	 Consider a range of factors in their design criteria and use this to create a design. Create a range of designs, applying the design criteria to their work. 	 Make a range of structures using a variety of materials which will enhance their product. Use a running stitch to join fabric to make a functional waistcoat. Attach a secure fastening, and decorative objects. 	 Make suitable changes to their work after peer evaluation. Evaluate their final product and explain in depth their choices. 	 Know that structures can be strengthened by manipulating materials. Know that it is important to design clothing with the client in mind.
	Food Come dine with me	Find a suitable recipe for their course. Record ingredients and equipment needed.	 Follow a recipe, including using the correct quantities of each ingredient. Write a recipe, explaining the process taken. 	Evaluate a recipe, considering: taste, smell, texture and origin of the food group.	Explain where certain key foods come from before they appear on the supermarket shelf.