



Design and Technology Progression Plan Years 1 – 6

Making, Using and Understanding

Aspect	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Tools	Select and explain why they have chosen a particular tool.	Use tools safely for cutting and joining materials.	Select tools and explain choices.	Select and use a range of tools accurately.	Name and select appropriate tools and use them with precision.	Use more complex tools with increasing accuracy.
Materials	Select and explain their choice of materials, sometimes with help.	Choose appropriate materials to achieve a desired effect.	Plan materials they will need and explain why.	Choose from a range of materials, showing an understanding of their different characteristics.	Select and combine materials with precision.	Choose the best material for a task, showing an understanding of their working characteristics.
Health and Safety	Explain how to use equipment safely.	Work safely and hygienically.	Follow health and safety rules for cooking and baking activities.	Follow health and safety rules when working with materials and substances.	Select and name appropriate tools for specific jobs and demonstrate how to use them safely.	Demonstrate how their products take into account the safety of the user.
Repair and Maintenance	Explain how they could fix simple products.	Cut, measure, form and shape materials to fix or repair something, explaining objectives.	Try an alternative way of fixing something, if their first attempt isn't successful.	Describe how a product could be made better.	Recycle, repair and mend old clothes/tools and explain why this is a good idea.	Paint, glue, nail and sand to rejuvenate a damaged, faulty or old object.
Textiles	Cut out shapes from a range of fabrics and papers.	Join fabrics using running stitch, glue, staples, oversewing and tape.	Create a simple pattern for a design.	Using a simple pattern to create a life-sized item of clothing.	Create a 3D product using a range of materials and sewing techniques.	Combine fabrics to make a product of high quality.
Card Making	Fold, tear, roll and cut paper and card.	Create simple hinges and pop-ups using card.	Cut slots on card and create nets.	Use more complex pop-ups.	Combine materials with temporary or fixed joints.	Combine materials with moving joints.
Cutting	Use scissors accurately and safely.	Cut wood/dowel using a bench hook and hacksaw.	Measure and mark wood/dowel.	Cut internal shapes.	Cut safely and accurately to a marked line.	Use a craft knife, cutting mat and safety ruler with one to one supervision.
Joining	Use glue and tape to join.	Attach features to a vehicle. (Axle and wheels or a sail and rudder)	Join fabrics using a running stitch.	Use a glue gun with close supervision. (One to one)	Use a glue gun with close supervision.	Join materials using the most appropriate method.
Structures	Build simple structures	Make structures stronger, stiffer and more stable.	Create a shell or frame structure using diagonal struts to strengthen.	Build frame and shell structures, showing awareness of how to strengthen, stiffen and reinforce.	Build a framework using a range of materials to support mechanisms.	Select most appropriate materials and framework for different structures.



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Mechanisms	Use wheels, axles, levers and sliders.	Create and use wheels and axles, levers and sliders.	Create and use simple gears, pulleys, cams, levers and linkages.	Use pulleys, levers and linkages in their products.	Use cams or gears in their products.	Select most appropriate mechanical system for a particular purpose.
Electricity	Talk about products that use electricity.	Create working circuits to light a bulb or work a buzzer.	Build a model, with a circuit, with buzzers and bulbs.	Build models incorporating motors.	Build models, incorporating switches to turn on and off.	Design products incorporating the most appropriate electrical systems.
Preparing and Cooking Food	Measure using non-standard measures. (Spoons and cups)	Cut, peel, grate and chop a range of ingredients to make dishes from other countries.	Combine a variety of ingredients using a range of cooking techniques.	Measure and weigh ingredients to prepare and cook a range of savoury dishes.	Combine food ingredients appropriately.	Use appropriate tools and equipment, weigh and measure with scales.
Nutrition	Identify the main food groups, including fruit and vegetables.	Recognise the need for a variety of foods in a diet.	Describe what a balanced diet is.	Make healthy eating choices and explain why.	Evaluate meals and consider if they contribute towards a balanced diet.	Plan how they can have a healthy/affordable diet.
Origins of Food	Identify the source of common foods.	Explain where the food they eat comes from.	Identify food which comes from the UK and other countries around the world.	Explain some of the processes that foods go through to preserve/make them more appealing.	Explain what times of year particular foods are in season.	Explain how ingredients are grown, reared, caught and processed.