



BGA D.T Progression

Knowledge and skills

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Research	<ul style="list-style-type: none"> -I am learning to explore how things work. -I am learning to explore different materials freely, in order to develop their ideas about how to use them and what to make. 	<ul style="list-style-type: none"> - I am learning to explore existing products. 	<ul style="list-style-type: none"> -I am learning to explore and evaluate a range of existing products. -I am learning to explore how a structure can be made stronger, stiffer, and more stable. 	<ul style="list-style-type: none"> -I am learning to evaluate a range of products -I am learning to understand pneumatics -I am learning to explore how to strengthen, stiffen and reinforce a structure. 	<ul style="list-style-type: none"> -I am learning to use ideas from other people when designing. -I am learning to evaluate other peoples designs to support planning. 	<ul style="list-style-type: none"> -I am learning to after researching from different sources come up with a range of ideas. -I am learning to research using a range of different sources. 	<ul style="list-style-type: none"> -I am learning to use market research to inform plans and ideas. -I am learning to explore how to strengthen, stiffen and reinforce more complex structures. -I am learning to explore how products should be stored
Plans, design and ideas	<ul style="list-style-type: none"> -I am learning to think of a plan. -I am learning to develop my own ideas. -I am learning to decide what to make. 	<ul style="list-style-type: none"> - I am learning to use ideas to make something. -I am learning to make a simple plan. -I am learning to explain to someone 	<ul style="list-style-type: none"> -I am learning to think of an idea and plan what do next. 	<ul style="list-style-type: none"> -I am learning to follow a step by step plan, Write a step by step plan -I am learning to design a product and make sure it looks attractive. -I am learning 	<ul style="list-style-type: none"> -I am learning to produce a plan and explain it. - I am learning to plan to present their product in an interesting way. 	<ul style="list-style-type: none"> - I am learning to produce a detailed step by step plan. -I am learning to suggest alternative plans outlining the positive features and draw backs. 	<ul style="list-style-type: none"> -I am learning to follow and refine plans. -I am learning to justify plans in a convincing way. -I am learning to consider culture and society in plans.



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		how to make their product.		to plan using some of the criteria.			
Make	<p>-I am learning to use the right resources to carry out their own plan.</p> <p>-I am learning to make imaginative and complex 'small worlds' with blocks and construction kits.</p> <p>-I am learning to select resources.</p>	<p>-I am learning to make a product which moves.</p>	<p>-I am learning to measure materials.</p> <p>-I am learning to join components and materials in different ways.</p> <p>-I am learning to use mechanisms to make a moving picture.</p>	<p>-I am learning to make a strong structure.</p> <p>-I am learning to make a product which uses mechanical components.</p>	<p>-I am learning to measure accurately, make cuts and holes.</p> <p>-I am learning to persevere and adapt their work when their original ideas do not work.</p> <p>-I am learning to make a product which uses an electrical component.</p> <p>-I am learning to use mechanisms to make a moving story book.</p>	<p>-I am learning to make a product meeting original criteria.</p> <p>-I am learning to make a prototype before making a final version.</p>	<p>-I am learning to explain how the product should be stored and give reasons.</p>
Evaluate	<p>-I am learning to share my creations explaining the process they have used.</p> <p>-I am learning to return to and build on previous learning, refining ideas</p>	<p>-I am learning to describe how something works.</p> <p>-I am learning to explain</p>	<p>-I am learning to explain what went well with their work against design criteria.</p> <p>-I am learning</p>	<p>-I am learning to prove that their design meets some of the criteria.</p> <p>-I am learning to evaluate and</p>	<p>-I am learning to explain how they improved their original design.</p> <p>-I am learning to evaluate the purpose and</p>	<p>-I am learning to explain how their product will appeal to a specific audience.</p> <p>-I am learning to</p>	<p>-I am learning to test and evaluate product.</p> <p>-I am learning to evaluate product against</p>



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	and developing their ability to represent them.	what went well with their work.	to evaluate an idea.	suggest improvements for their design.	appearance of their product.	evaluate appearance and function against original criteria.	clear criteria.
Tools	<ul style="list-style-type: none"> -I am learning to use a range of small tools. (including scissors, paintbrushes and cutlery.) -I a learning to use one handed tools and equipment. -I am learning to safely use a variety of tools experimenting with colour, design. Texture, form and function. -I am learning to develop my fine motor skills so that they can use a range of tools competently, safely and confidently. 	<ul style="list-style-type: none"> -I am learning to choose appropriate tools. 	<ul style="list-style-type: none"> -I am learning to choose tools and explain why they were chosen. 	<ul style="list-style-type: none"> -I am learning to choose the right tools which are most appropriate and explain this choice. 	<ul style="list-style-type: none"> -I am learning to use tools accurately. 	<ul style="list-style-type: none"> -I am learning to use a range of tools competently. 	<ul style="list-style-type: none"> -I am learning to use a range of tools competently.
Material	<ul style="list-style-type: none"> -I am learning to safely use a variety of materials experimenting with colour, design. Texture, form and function. -I am learning to decide which materials to us to express my ideas. 	<ul style="list-style-type: none"> -I am learning to choose appropriate resources. 	<ul style="list-style-type: none"> -I am learning to choose materials/textil es and explain why they were chosen. 	<ul style="list-style-type: none"> -I am learning to choose the right materials for suitability and appearance. 	<ul style="list-style-type: none"> -I am learning to measure material accurately -I am learning to ensure 2 pieces of material are the same size. 	<ul style="list-style-type: none"> -I am learning to use a range of materials competently. 	<ul style="list-style-type: none"> -I am learning to work within a budget, -I am learning to pick materials within a budget.
Cook	<ul style="list-style-type: none"> -I am learning to 	<ul style="list-style-type: none"> -I am learning to name 	<ul style="list-style-type: none"> -I am learning to describe how food 		<ul style="list-style-type: none"> -I am learning to show that they 		



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ing and nutrit ion		<p>ingredients and cut food safely.</p> <ul style="list-style-type: none"> -I am learning to describe ingredients being used. -I am learning to understand where food comes from. -I am learning to know what a healthy and varied diet is. 	<p>ingredients come together.</p> <ul style="list-style-type: none"> -I am learning to know how to be hygienic and safe when using food. -I am learning to understand and apply principles of healthy and varied diet. -I am learning to prepare a savoury dish using cooking techniques. 	<p>can be safe and hygienic in a kitchen.</p> <ul style="list-style-type: none"> -I am learning to pick ingredients within a budget. -cook a savoury dish - I am learning to understand seasonality and know where and how a variety of ingredients are grown.
*	<p>Early years objectives that link but are not specifically covered through link to D.T headings.</p> <ul style="list-style-type: none"> - Use large movements to wave flags and streamers, pain and make marks. - Progress towards a more fluent style of moving, with developing control and grace. - Use their core muscle strength to achieve a good posture when sitting at a table or sitting on the floor - Explore, use and refine a variety of artistic effects to express their ideas and feelings. 			

Vocabulary

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
KEY	Planning investigating design Evaluate make User purpose ideas product	design criteria function	model prototype annotated sketch functional Innovative investigate label drawing annotated sketch appealing	design brief	design decisions functionality authentic design specification innovative research mock-up	All vocabulary from Y1 to Y5.
Food	fruit and vegetable names names of equipment		name of products techniques and ingredients texture,		Wholemeal, baking soda	



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	<p>names of utensils slicing peeling cutting squeezing healthy diet choosing, ingredients sensory vocabulary e.g. soft, juicy, crunchy, sweet, sticky, smooth, sharp, crisp, sour, hard flesh, skin, seed, pip, core,</p>	<p>appearance, Taste e.g. sweet, sour, hot, spicy, smell, preference, greasy, moist, cook, fresh, savoury, hygienic, edible, grown, reared, caught, frozen, tinned, processed, seasonal, harvested healthy/varied diet</p>	<p>Spice herbs fat, sugar Carbohydrate Protein Vitamins Nutrients Nutrition Healthy Varied Gluten Dairy Savoury Source seasonality utensil Combine Fold Knead Stir Pour Mix rubbing in Whisk Beat roll out Shape Sprinkle crumble</p>
<p>Structure</p>	<p>cut, fold, join, fix structure, wall, tower, framework, weak, strong, base, top, underneath, side, edge, surface, thinner, thicker, corner, point, straight, curved, metal, wood, plastic circle, triangle, square, rectangle, cuboid, cube, cylinder</p>	<p>shell structure, three-dimensional (3-D) shape, net, cube, cuboid, prism, vertex, edge, face, length, width, breadth, capacity, marking out, scoring, shaping, tabs, adhesives, joining, assemble, accuracy, material, stiff, strong, reduce, reuse, recycle, corrugating, ribbing, laminating, font, lettering, text, graphics, decision,</p>	<p>frame structure, stiffen, strengthen, reinforce, triangulation, stability, shape, join, temporary, permanent</p>



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Textiles	<p>Tools Fabrics Template pattern pieces mark out Join Decorate finish</p>	<p>names of fabrics, Fastening Compartment Zip Button Structure finishing technique Strength Weakness Stiffening Stitch Seam seam allowance</p>	<p>Wadding Reinforce right side wrong side hem, pattern pieces, name of textiles and fastenings used, Pins Needles Thread pinking shears</p>
Mechanism mechanical systems	<p>Slider Lever Pivot Slot bridge/guide Card masking tape paper fastener Join Pull Push Up Down Straight curve, forwards Backwards Vehicle Wheel Axle axle holder Chassis Body</p>	<p>Linkage pivot Slot Bridge guide system Input Process output linear Rotary Oscillating reciprocating</p>	<p>pulley, drive belt, gear, rotation, spindle, driver, follower, ratio, transmit, axle, motor, circuit, switch, circuit diagram, annotated drawings, exploded diagrams, mechanical system, electrical system, input, process, output</p>



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	cab assembling Cutting Joining Shaping Finishing Fixed Free Moving Mechanism names of tools, equipment and materials used			
Electrical			series circuit Fault Connection toggle switch Battery battery holder Bulb bulb holder wire, insulator Conductor crocodile clip Control Program System input device output device	reed switch toggle switch light dependent resistor (LDR) tilt switch light emitting diode (LED) crocodile clip control parallel circuit push-to-break switch push-to-make switch