DT Keys - Skills

	Year 2	Year 3	Year 4	Year 5	Year 6
Developing, planning and communicating ideas	 Generate ideas by drawing on their own and other people's experiences Develop ideas through discussion 	 Generate ideas by considering the purpose and user/s Identify a purpose and criteria for a successful product Plan the order of their work Explore, develop and communicate design proposals by modelling ideas Make drawings when designing, which include labels 	 Generate ideas considering the purposes for which they are designing Make labelled drawings, showing specific features from different views Devise a clear plan of the order of their work, planning how to use materials, equipment and processes, and suggest alternative methods of making should the first attempts fail Evaluate products and identify criteria that can be used for their own designs 	 Generate ideas through discussion and identify a purpose for their product Create a specification for their design Devise a clear plan of the order of their work, planning how to use materials, equipment and processes, and suggest alternative methods of making should the first attempts fail Use results of investigations, information sources, including ICT to develop design idea 	 Communicate their ideas through detailed labelled drawings Develop a design specification Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways Plan the order of their work, choosing appropriate materials, tools and technique

	Year 2	Year 3	Year 4	Year 5	Year 6
Evaluating Processes and products	Evaluate their product against their design criteria Evaluate their products as they are developed, identifying strengths and possible changes they might make Talk about their ideas, saying what they like and dislike about them	 Evaluate their product against their original design criteria e.g. how well it meets its intended purpose Disassemble and evaluate familiar products 	Evaluate their work both during and at the end of the assignment Evaluate their products carrying out appropriate tests	 Evaluate a product against the original design specification Evaluate their product independently and with others 	 Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests Record their evaluations using drawings with labels Evaluate their product against their original criteria, suggesting ways in which their product could be improved

DT Keys - Knowledge and Vocabulary

	Year 2	Year 3	Year 4	Year 5	Year 6
Food	Understand where a range of food comes from e.g. farmed or	* * * * * * * * * * * * * * * * * * * *		 Know how to use utensils and equipment, includin heat sources, to prepare and cook food. 	
	homegrown fruit and vegetables			 Understand about seasor products 	nality in relation to food
	 Understand basic principles of a 	Know and use relevant te	echnical and sensory	Identify the source of diff	erent food products.
	balanced healthy diet to prepare dishes	vocabulary appropriately.		Know and use relevant te vocabulary.	chnical and sensory
	Know and use technical and sensory vocabulary relevant to their project				
Vocabulary	fruit and vegetable names, names of the equipment used,	product names, equipment techniques and ingredients sour, hot, spicy, appearance	s, texture, taste, sweet,	ingredients, yeast, dough, k unleavened, baking soda, s carbohydrate, protein, vita	pice, herbs fat, sugar,
	appropriate sensory vocabulary	greasy, moist, cook, fresh, grown, reared, caught, froz seasonal, harvested health	savoury, hygienic, edible, en, tinned, processed,	healthy, varied, gluten, dail savoury, source, seasonalit	ry, allergy, intolerance,

	Year 2	Year 3	Year 4	Year 5	Year 6
Structures	 Know how to make freest 	anding structures stronger,	Develop and use knowledge of how to construct		Understand how to
	stiffer and thus more stable	ı.	strong, stiff shell structures.		strengthen, stiffen and
	Know and use technical versions	ocabulary relevant to the	Develop and use knowled;	ge of nets of cubes and	frameworks.
	project		cuboids and, where appropr	riate, more complex 3D	
			shapes.		Know and use technical
					vocabulary relevant to
				ocabulary relevant to the	the project.
			project.		
Vocabulary	cut, fold, join, fix structure,	wall, tower, framework,	shell structure, three-dimen	sional (3-D) shape, net,	frame structure, stiffen,
,	weak, strong, base, top, und	derneath, side, edge,	cube, cuboid, prism, vertex,	edge, face, length, width,	strengthen, reinforce,
	surface, thinner, thicker, co	rner, point, straight,	breadth, capacity, marking of	out, scoring, shaping, tabs,	triangulation, stability,
	curved, metal, wood, plasti	c circle, triangle, square,	adhesives, joining, assemble	e, accuracy, material, stiff,	shape, join, temporary,
	rectangle, cuboid, cube, cyl	inder	strong, reduce, reuse, recyc	le, corrugating, ribbing,	permanent
			laminating, font, lettering, t	ext, graphics, decision,	

	Year 2	Year 3	Year 4	Year 5	Year 6
Electrical Systems		 Understand and use electrical systems in their products linked to science coverage Apply their understanding of computing to program and control their products Know and use technical vocabulary relevant to the project. 		 Understand and use electrical systems in their products linked to science coverage Apply their understanding of computing to program, monitor and control their products Know and use technical vocabulary relevant to the project 	
Vocabulary		series circuit, fault, connect make switch, push-to-break holder, bulb, bulb holder, w crocodile clip, control, prog output device	switch, battery, battery vire, insulator, conductor,	to-break switch, light dependent resistor (LDR), tilt switch, light emitting diode (LED), bulb, bulb holder,	

	Year 2	Year 3	Year 4	Year 5	Year 6
Textiles	 Understand how simple 3-D textile products are made, using a template to create two identical shapes Understand how to join fabrics using different techniques e.g. running stitch, glue, over stitch, stapling Explore different finishing techniques Know and use technical vocabulary relevant to the project 	Know how to strengthen, existing fabrics	rely join two pieces of fabric patterns and seam		duct from a combination of eces, fabric shapes and an be strengthened, nere appropriate.
Vocabulary	joining and finishing techniques, tools, fabrics and components, template, pattern pieces, mark out, join, decorate, finish	fabric, names of fabrics, fas button, structure, finishing weakness, stiffening, temp allowance	technique, strength,	seam, seam allowance, wad wrong side, hem, template textiles and fastenings used pinking shears, fastenings,	pattern pieces, name of

	Year 2	Year 3	Year 4	Year 5	Year 6
Mechanisms/ mechanical systems	 Explore and use wheels, axles and axle holders Distinguish between fixed and freely moving axles Know and use technical vocabulary relevant to the project 	 Understand and use lever and linkage mechanisms Distinguish between fixed and loose pivots Know and use technical vocabulary relevant to the project. 		Understand that mechanical and electrical systems have an input, process and an output Understand how gears and pulleys can be used to speed up, slow down or change the direction of movement. Know and use technical vocabulary relevant to the project	
Vocabulary	vehicle, wheel, axle, axle holder, chassis, body, cab assembling, cutting, joining, shaping, finishing, fixed, free, moving, mechanism names of tools, equipment and materials used	mechanism, lever, linkage, system, input, process, out oscillating, reciprocating		pulley, drive belt, gear, rot follower, ratio, transmit, a circuit diagram, annotated diagrams, mechanical syste process, output	xle, motor, circuit, switch,