	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Design, Make and Evaluate	Explores with materials and makes models with support Adapts work once finished Returns to and builds on previous learning, refining ideas and developing the ability to represent them Shares creations, explaining the processes used	Draws a model Discusses ideas and explains against design criteria Selects from and uses a range of tools and equipment Evaluates against design criteria Selects and uses a range of materials and components	Designs purposeful, functional, appealing products based on design criteria Explains design Selects from a range of tools and equipment Explores and evaluates a range of existing products Evaluates against design criteria Suggests improvements	Researches and develops a range of design criteria to inform design Designs an innovative, functioning and appealing product that is fit for purpose and aimed at a group/ audience Generates and develops ideas through discussion, annotated sketches and diagrams Uses a wider range of tools/equipment Selects from a wider range of materials/ components Selects materials based on aesthetic quality and explain why chosen Investigates a existing products Evaluates against design criteria Suggests improvements for ideas/ products	Researches and develops design criteria to inform design. Designs an innovative, functional and appealing product that is fit for purpose and aimed at a particular audience or group. Generates and develops ideas through discussion, annotated sketches, cross sectional and exploded diagrams and prototypes. Selects and uses a wider range of tools and equipment. I can select from and use a wider range of materials and components. Selects materials according to their function or aesthetic quality and explains why chosen it. Investigates a range of existing products. Evaluates own ideas/products against design criteria. Begins to understand how key events and individuals in D&T have helped shape the world.	Researches and develops design criteria to inform design. Designs an innovative, functional and appealing product that is fit for purpose and aimed at a particular audience or group. Generates and develops ideas through discussion, annotated sketches, cross sectional and exploded diagrams and prototypes. Selects and uses a wider range of tools and equipment to perform tasks accurately. I can select from and use a wider range of materials and components. Selects materials according to their function or aesthetic quality and explains why chosen it. Investigates a range of existing products. Evaluates own ideas/products against design criteria. Begins to understand how key events and individuals in D&T have helped shape the world.	Researches and develops design criteria to inform design. Designs an innovative, functional and appealing product that is fit for purpose and aimed at a particular audience or group. Generates and develops ideas through discussion, annotated sketches, cross sectional and exploded diagrams, prototype and computer aided design. Selects and uses a wider range of tools and equipment to perform tasks accurately. I can select from and use a wider range of materials and components. Selects materials according to their function or aesthetic quality and explains why chosen it. Investigates a range of existing products. Evaluates own ideas/products against design criteria. Begins to understand how key events and individuals in D&T have helped shape the world.
Technical Knowledge/ Moving Parts	Joins construction pieces together to build and balance	Explores and uses mechanisms – levers and sliders Uses mechanisms in designs	Explores use of mechanisms – wheels and axles Uses mechanisms in designs	Understands and uses mechanical systems - levers and linkages	Understands and uses electrical systems in products – switches, bulbs, buzzers and motors Uses levers and pulleys within designs	Makes levers and linkages Understands and uses mechanical systems in products – gears, pulleys, cams and levers Applies understanding of how to strengthen, stiffen and reinforce more complex structures	Understands and uses electrical systems in products – series circuits with switches, bulbs, buzzers and motors Applies understanding of computing to program, monitor and control a product

							Debugs and problem solves as necessary, identifying ways to improve the functionality of a robot
Materials and Structures	Uses various construction materials Chooses own materials to make junk models independently	Selects materials/ packaging to create design Marks out materials using template Joins materials using tape/ glue Cuts along varied lines Cuts wood dowelling using hacksaw and bench hook (supported) Makes temporary/ fixed joins Builds structure exploring strength, stiffness and stability	Marks out materials using a template Explains use of glue gun Cuts along lines Uses tape/ glue to create temporary, fixed and moving joins Builds structures exploring strength, stiffness and stability	Creates a shell or frame structure, strengthening with diagonal struts Uses a glue gun (under 1-1 supervision). Cuts slots Cuts internal shapes Cuts accurately and safely to a marked line Applies understanding of how to strengthen and reinforce more complex structures	Creates a shell or frame structure. Uses a glue gun (under 1-2 supervision). Cuts slots Cuts internal shapes. Cuts accurately and safely to a marked line. Applies understanding of how to strengthen and reinforce more complex structures Measures and marks a square section and dowelling to the nearest cm Uses a bradawl to mark hole position	Cuts internal shapes Cuts accurately and safely to a marked line Can use a craft knife, cutting mat and safety ruler under 1:1 supervision as appropriate Uses a glue gun under close supervision Cuts accurately to 1mm using strip wood, dowelling and square section Builds frameworks using a range of materials – wood, card, corrugated plastic	Cuts internal shapes Cuts accurately and safely to a marked line Uses a glue gun under close supervision Builds frameworks using a range of materials – wood, card and corrugated plastic
Textiles	Shows an interest in, and describes, texture of materials	Decorates fabrics using pens/ paint/ buttons/ beads/ ribbons Uses templates to cut out shapes Joins fabrics using staples/ glue	Uses a template to cut out shapes Joins fabrics using a running stitch Decorates fabrics linked to purpose	Joins fabrics using a running stitch and back stitch Creates a prototype Creates simple patterns	Refines a range of sewing techniques, including a running stitch, cross stitch, over stitch and back stitch.	Joins fabrics using a running stitch, over stitch and back stitch Explains and uses seam allowance Creates a prototype Uses printing to decorate Creates a simple pattern	Joins fabrics using a running stitch, over stitch and back stitch Uses cross stitch to add detail Explains and uses seam allowance Creates a prototype Uses applique to decorate by gluing/ stitching Creates a simple pattern
Cooking and Nutrition	Knows why and how to wash hands Begins to describe food using senses Learns that following recipes can produce food	Knows why to wash hands Describes food using senses Uses right tools to cut/ chop Discusses and understands where food comes from	Knows why to wash hands Reads a scale to weigh ingredients Uses right tools to cut, peel, grate and chop Understands where food comes from	Prepares and cooks a range of ingredients Works safely and hygienically Weighs and measures using scales Cuts and shapes ingredients using tools and equipment	Prepares and cooks a range of ingredients to produce predominantly savoury dishes Works safely and hygienically Understands and applies principles of a healthy and varied diet	Works safely and hygienically Cuts and shapes ingredients using tools and equipment Prepares and cooks a range of ingredients to produce predominantly savoury dishes	Works safely and hygienically Cuts and shapes ingredients using tools and equipment Prepares and cooks a range of ingredients to produce predominantly savoury dishes

	Begins to use		Understands and	Understands and	Weighs and measures using	Analyses taste, texture,	Analyses taste, texture,
	tools to create		uses the basic	applies the principles of	scales	smell and appearance of a	smell and appearance of a
	simple sweet and		principles of a	a healthy and varied	Cuts and shapes ingredients	range of foods	range of foods
	savoury foods		healthy diet	diet	using tools and equipment	Joins and combines a range	Joins and combines a
	(linked to story		Healthy ulet	Understands about		of ingredients	range of ingredients
	` '				Analyses taste, texture, small	S	
	books)			where and when food	and appearance of a range of	Understands and applies the	Understands and applies
				is grown, caught and	foods	principles of a healthy and	the principles of a healthy
				reared	Joins and combines	varied diet	and varied diet
					ingredients by beating,	Understands seasonality and	Understands seasonality
					kneading and rubbing	knows where and how food/	and knows where and how
						ingredients are grown,	food/ ingredients are
						reared, caught and	grown, reared, caught and
						processed	processed
	Links to key texts	Has an awareness of	Has knowledge of a	Has knowledge of a	Investigates inventor Thomas	Investigates inventor James	Investigates Lucienne Day,
	The 3 Little Pigs;	a range of influential	range of car	range of bakers, linking	Edison and understand his	Watt, and understands his	learning about her impact
	Jack and the	British chefs and	manufacturers over	to popular culture	relevance to their torch	impact on the world	on post-war textiles
	Beanstalk; The	cooks.	time	(Mary Berry/ Paul	design.		Learns about key
Knowledge	Train Ride		Begins to	Hollywood)	Investigates Isambard		computing and coding
Study			understand the		Kingdom Brunel and		pioneers, including Ada
o tuu,			impact of packaging		understand his relevance to		Lovelace and Alan Turing
			on the		their bridge design		
			environment,		-		
			particularly plastic				