D&T Medium Term Knowledge Curation Progression



Designing	EYFS	Key stage 1	Key Stage 2
Understanding contexts, users	 learn about 	Across KS1 pupils should:	Across KS2 pupils should:
and purposes	planning and	work confidently within a range	work confidently within a range of contexts, such as the home, school,
	adapting initial	of contexts, such as imaginary,	leisure, culture, enterprise, industry and the wider environment
	ideas to make	story-based, home, school,	describe the purpose of their products
	them	gardens, playgrounds, local	• indicate the design features of their products that will appeal to intended
		community, industry and the	users
		wider environment	explain how particular parts of their products work In early KS2 pupils
		 state what products they are 	should also:
		designing and making	gather information about the needs and wants of particular individuals
		• say whether their products are	and groups
		for themselves or other users	 develop their own design criteria and use these to inform their ideas In
		• describe what their products are	late KS2 pupils should also:
		for	• carry out research, using surveys, interviews, questionnaires and web-
		• say how their products will work	based resources
		 say how they will make their 	• identify the needs, wants, preferences and values of particular individuals
		products suitable for their	and groups
		intended users	develop a simple design specification to guide their thinking
		• use simple design criteria	
Generating, developing,	• begin to use the	Across KS1 pupils should:	Across KS2 pupils should:
modelling and communicating	language of	 generate ideas by drawing on 	share and clarify ideas through discussion
ideas	designing and	their own experiences	model their ideas using prototypes and pattern pieces
	making, e.g. join,	 use knowledge of existing 	• use annotated sketches, cross-sectional drawings and exploded diagrams
	build and shape	products to help come up with	to develop and communicate their ideas
		ideas	use computer-aided design to develop and communicate their ideas
		 develop and communicate 	In Year 3 & 4 pupils should also:
		ideas by talking and drawing •	generate realistic ideas, focusing on the needs of the user
		model ideas by exploring	• make design decisions that take account of the availability of resources In
		materials, components and	Year 5 & 6 pupils should also:
		construction kits and by making	generate innovative ideas, drawing on research
		templates and mockups • use	make design decisions, taking account of constraints such as time,
		information and communication	resources and cost
		technology, where appropriate,	
		to develop and communicate	
		their ideas	



Making	EYFS	Key Stage 1	Key Stage 2
Planning	 plan by suggesting what to do next select from a range of tools and equipment select from a range of materials to shape, assemble and join materials 	Across KS1 pupils should: • plan by suggesting what to do next • select from a range of tools and equipment, explaining their choices • select from a range of materials and components according to their characteristics	Across KS2 pupils should: • select tools and equipment suitable for the task • explain their choice of tools and equipment in relation to the skills and techniques they will be using • select materials and components suitable for the task • explain their choice of materials and components according to functional properties and aesthetic qualities In Year 3 & 4 should also: • order the main stages of making In Year 5 & 6 should also: • produce appropriate lists of tools, equipment and materials that they need • formulate step-by-step plans as a guide to making
Practical skills and techniques	• follow procedures for safety and hygiene • use a range of materials and components, including construction materials, textiles and food ingredients • measure, mark out, cut and shape materials and components • assemble, join and combine materials and components	Across KS1 pupils should: • follow procedures for safety and hygiene • use a range of materials and components, including construction materials and kits, textiles, food ingredients and mechanical components • measure, mark out, cut and shape materials and components • assemble, join and combine materials and components • use finishing techniques, including those from art and design	Across KS2 pupils should: • follow procedures for safety and hygiene • use a wider range of materials and components than KS1, including construction materials and kits, textiles, food ingredients, mechanical components and electrical components In Year 3 & 4 pupils should also: • measure, mark out, cut and shape materials and components with some accuracy • assemble, join and combine materials and components with some accuracy • apply a range of finishing techniques, including those from art and design, with some accuracy In Year 5 & 6 pupils should also: • accurately measure, mark out, cut and shape materials and components • accurately assemble, join and combine materials and components • accurately apply a range of finishing techniques, including those from art and design • use techniques that involve a number of steps • demonstrate resourcefulness when tackling practical problems



Evaluating	EYFS	Key Stage 1	Key Stage 2
Own ideas and products	 talk about their design ideas and what they are making talk about changes made during the making process, e.g. making a decision to use a different joining method. 	Across KS1 pupils should: • talk about their design ideas and what they are making • make simple judgements about their products and ideas against design criteria • suggest how their products could be improved	Across KS2 pupils should: • identify the strengths and areas for development in their ideas and products • consider the views of others, including intended users, to improve their work in early KS2 pupils should also: • refer to their design criteria as they design and make • use their design criteria to evaluate their completed products In Year 5 & 6 pupils should also: • critically evaluate the quality of the design, manufacture and fitness for purpose of their products as they design and make • evaluate their ideas and products against their original design
Existing products		Across KS1 pupils should explore: • what products are • who products are for • what products are for • how products work • how products are used • where products might be used • what materials products are made from • what they like and dislike about products	Across KS2 pupils should investigate and analyse: • how well products have been designed • how well products have been made • why materials have been chosen • what methods of construction have been used • how well products work • how well products achieve their purposes • how well products meet user needs and wants In Year 3 & 4 pupils should also investigate and analyse: • who designed and made the products • where products were designed and made • when products were designed and made • whether products can be recycled or reused In Year 5 & 6 pupils should also investigate and analyse: • how much products cost to make • how innovative products are • how sustainable the materials in products are
Key events and individuals	Not a requirement in EYFS	Not a requirement at KS1	what impact products have beyond their intended purpose Across KS2 pupils should know: about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products



Technical Knowledge	EYFS	Key Stage 1	Key Stage 2
Making products work	• learn how to use a range of tools, e.g. scissors, hole punch, stapler, woodworking tools, rolling pins, pastry cutters. • learn how everyday objects work by dismantling things.	Across KS1 pupils should know: about the simple working characteristics of materials and components about the movement of simple mechanisms such as levers, sliders, wheels and axles how freestanding structures can be made stronger, stiffer and more stable that a 3-D textiles product can be assembled from two identical fabric shapes that food ingredients should be combined according to their sensory characteristics the correct technical vocabulary for the projects they are undertaking	Across KS2 pupils should know: • how to use learning from science to help design and make products that work • how to use learning from mathematics to help design and make products that work • that materials have both functional properties and aesthetic qualities • that materials can be combined and mixed to create more useful characteristics • that mechanical and electrical systems have an input, process and output • the correct technical vocabulary for the projects they are undertaking In Year 3 & 4pupils should also know: • how mechanical systems such as levers and linkages or pneumatic systems create movement • how simple electrical circuits and components can be used to create functional products • how to program a computer to control their products • how to make strong, stiff shell structures • that a single fabric shape can be used to make a 3D textiles product • that food ingredients can be fresh, pre-cooked and processed In Year 5 & 6 pupils should also know: • how mechanical systems such as cams or pulleys or gears create movement • how more complex electrical circuits and components can be used to create functional products • how to program a computer to monitor changes in the environment and control their products • how to reinforce and strengthen a 3D framework • that a 3D textiles product can be made from a combination of fabric shapes • that a recipe can be adapted by adding or substituting one or more ingredients



Cooking and Nutrition	EYFS	Key Stage 1	Key Stage 2
Where food comes from	 that all food comes from plants or animals that food has to be farmed, grown elsewhere (e.g. 	Across KS1 pupils should know: • that all food comes from plants or animals • that food has to be farmed, grown elsewhere (e.g. home) or caught	Across KS2 pupils should know: • that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chickens and cattle) and caught (such as fish) in the UK, Europe and the wider world In Year 5 & 6 pupils should also know: • that seasons may affect the food available
	home) or caught		 how food is processed into ingredients that can be eaten or used in cooking
Food preparation, cooking and nutrition	how to prepare simple dishes safely and hygienically, without using a heat source	Across KS1 pupils should know: • how to name and sort foods into the five groups in The eatwell plate • that everyone should eat at least five portions of fruit and vegetables every day • how to prepare simple dishes safely and hygienically, without using a heat source • how to use techniques such as cutting, peeling and grating	Across KS2 pupils should know: • how to prepare and cook a variety of predominantly savoury dishes safely and hygienically including, where appropriate, the use of a heat source • how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking In Year 3 & 4 pupils should also know: • that a healthy diet is made up from a variety and balance of different food and drink, as depicted in The eatwell plate • that to be active and healthy, food and drink are needed to provide energy for the body In Year 5 & 6 pupils should also know: • that recipes can be adapted to change the appearance, taste, texture and aroma • that different food and drink contain different substances – nutrients, water and fibre – that are needed for health