

COUND AND DISTRICT PRIMARY SCHOOL

	SOUND AND DISTRICT PRIMARY SCHOOL SKILL PROGRESSION DESIGN AND TECHNOLOGY Year 1 Year 2 Year 3 Year 4 Year 5 Year 6						
ĬI. ĂĬ	(KS1 skills)	(KS1 skills)	(Lower KS2 skills)	(Lower KS2 skills)	(Upper KS2 skills)	(Upper KS2 skills)	
		DES	IGNING				
Understanding contexts, users and purposes	Across K\$1 pupils should: • work confidently within a range of contexts, such as imaginary, story- based, home, school, gardens, playgrounds, local	Across KS1 pupils should: • work confidently within a range of contexts, such as imaginary, story- based, home, school, gardens,	 Across KS2 pupils should: work confidently within a range of contexts, such as the home, sch leisure, culture, enterprise, industry and the wider environment 				
	community, industry and the wider environment • state what products they are designing and making • say whether their products are for themselves or other users • describe what their products are for • say how their products will work	playgrounds, local community, industry and the wider environment • state what products they are designing and making • say whether their products are for themselves or other users • describe what their products are for	pupils should also: • gather information about the needs and wants of particular individuals and groups • develop their own design criteria and use these to inform their ideas	pupils should also: • gather information about the needs and wants of particular individuals and groups • develop their own design criteria and use these to inform their ideas	should also: • carry out research, using surveys, interviews, questionnaires and web-based resources • identify the needs, wants, preferences and values of particular individuals and groups	should also: • carry out research, using surveys, interviews, questionnaires and web-based resources • identify the needs, wants, preferences and values of particular individuals and groups	

	 say how they will make their products suitable for their intended users use simple design criteria to help develop their ideas. 	 say how their products will work say how they will make their products suitable for their intended users use simple design criteria to help develop their ideas. 			develop a simple design specification to guide their thinking	develop a simple design specification to guide their thinking
Generating, developing, modelling and communicating ideas	Across KS1 pupils should: • generate ideas by drawing on their own experiences • use knowledge of existing products to help come up with ideas • develop and communicate ideas by talking and drawing • model ideas by exploring materials, components and construction kits and by making templates and mockups • use information and communication technology, where appropriate, to develop and communicate their ideas	Across K\$1 pupils should: • generate ideas by drawing on their own experiences • use knowledge of existing products to help come up with ideas • develop and communicate ideas by talking and drawing • model ideas by exploring materials, components and construction kits and by making templates and mockups • use information and communication technology, where appropriate, to develop and communicate their ideas	model their idea use annotated: diagrams to deve communicate the	y ideas through dis as using prototypes sketches, cross-sec elop and eir ideas	cussion and pattern piece tional drawings and relop and commun In late KS2 pupils should also: • generate innovative ideas, drawing on research • make design decisions, taking account of constraints such as time, resources and cost	d exploded

	MAKING							
	Year 1 (KS1 skills)	Year 2 (KS1 skills)	Year 3 (Lower KS2 skills)	Year 4 (Lower KS2 skills)	Year 5 (Upper KS2 skills)	Year 6 (Upper KS2 skills)		
Planning	Across K\$1 pupils should: • plan by suggesting what to do next • select from a range Across K\$1 pupils should: • plan by suggesting what to do next • select from a range Across K\$2 pupils should: • select tools and equipment s • explain their choice of tools of techniques they will be using • select materials and compor					d: oment suitable for the task of tools and equipment in relation to the skills and using components suitable for the task of materials and components according to		
	select from a range of materials and components according to their characteristics	explaining their choices • select from a range of materials and components according to their characteristics	In early KS2 pupils should also: • order the main stages of making	In early KS2 pupils should also: • order the main stages of making	In late KS2 pupils should also: • produce appropriate lists of tools, equipment and materials that they need formulate stepby-step plans as a guide to making	In late KS2 pupils 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	Across K\$1 pupils should: • follow procedures for safety and hygiene • use a range of	Across K\$1 pupils should: • follow procedures for safety and hygiene	 Across KS2 pupils should: follow procedures for safety and hygiene use a wider range of materials and components than KS1, in construction materials and kits, textiles, food ingredients, mech 					
	materials and components, including construction materials and kits, textiles, food ingredients and	use a range of materials and components, including construction materials and kits,	In early KS2 pupils should also: • measure, mark out, cut and shape	In early KS2 pupils should also: • measure, mark out, cut and shape	In late KS2 pupils should also: • accurately measure, mark out, cut and shape materials	In late KS2 pupils should also: • accurately measure, mark out, cut and shape materials		

mechanical	textiles, food	materials and	materials and	and	and
components	ingredients and	components	components	components	components
measure, mark out,	mechanical	with some	with some	 accurately 	accurately
cut and shape	components	accuracy	accuracy	assemble, join	assemble, join
materials and	measure, mark	assemble, join	assemble, join	and combine	and combine
components	out, cut and shape	and combine	and combine	materials and	materials and
assemble, join and	materials and	materials and	materials and	components	components
combine materials	components	components	components	 accurately 	accurately
and components	assemble, join	with some	with some	apply a range of	apply a range of
• use finishing	and combine	accuracy	accuracy	finishing	finishing
techniques,	materials and	apply a range	apply a range	techniques,	techniques,
including those from	components	of finishing	of finishing	including those	including those
art and	• use finishing	techniques,	techniques,	from art and	from art and
design	techniques,	including those	including those	design	design
	including those	from art and	from art and	• use techniques	use techniques
	from art and	design, with	design, with	that involve a	that involve a
	design	some accuracy	some accuracy	number of steps	number of steps
				 demonstrate 	 demonstrate
				resourcefulness	resourcefulness
				when tackling	when tackling
				practical	practical
				problems	problems

		EVA	LUATING			
	Year 1 (KS1 skills)	Year 2 (KS1 skills)	Year 3 (Lower KS2 skills)	Year 4 (Lower KS2 skills)	Year 5 (Upper KS2 skills)	Year 6 (Upper KS2 skills)
Own ideas and products	should: • talk about their design ideas and what should: • talk abo design idea	Across KS1 pupils should: • talk about their design ideas and what they are	products	ngths and areas fo	r development in th	
	they are making • make simple judgements about their products and ideas against design criteria • suggest how their products could be improved	making • make simple judgements about their products and ideas against design criteria • suggest how their products could be improved	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 early K\$2 pupils should also: • refer to their design criteria as they design and make • use their design criteria to evaluate their completed products	In late KS2 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 specification	In late KS2 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 specification
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	Across KS1 pupils should explore: • what products are • who products are for • what products are for • how products work • how products are used	 how well produ how well produ why materials h what methods of how well produ how well produ 	Across KS2 pupil cts have been des cts have been madave been chosen of construction have	de re been used urposes	In late KS2 pupils should also investigate and analyse: • how much products cost to make

	what materials products are made from what they like and dislike about products	where products might be used what materials products are made from what they like and dislike about products	who designed and made the products where products were designed and made when products were designed and made whether products can	who designed and made the products where products were designed and made when products were designed and made whether products can	how innovative products are how sustainable the materials in products are what impact products have beyond their intended purpose	how innovative products are how sustainable the materials in products are what impact products have beyond their intended purpose		
			be recycled or reused	be recycled or reused				
Key events and individuals	Not a requirement in KS1	Not a requirement in KS1	Across KS2 pupils should know: • about inventors, designers, engineers, chefs and manufacturers who have developed ground-breaking products					

		TECHNICA	L KNOWLE	DGE		
	Year 1 (KS1 skills)	Year 2 (KS1 skills)	Year 3 (Lower KS2 skills)	Year 4 (Lower KS2 skills)	Year 5 (Upper KS2 skills)	Year 6 (Upper KS2 skills)
Making products work	Across K\$1 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 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	that work how to use learn products that wo that materials has that materials contracteristics that mechanical output	should know: ning from science to ning from mathemore rk ave both functione an be combined co	co help design and actics to help design and properties and act and mixed to create at the projects they are an inputed for the projects they are are an inputed for the projects they are are an inputed for the projects they are	and make esthetic qualities e more useful t, process and

	 the correct 	• how to	how to	computer to	computer to
	technical	program a	program a	monitor	monitor
	vocabulary for the	computer to	computer to	changes in the	changes in the
	projects they are	control their	control their	environment	environment
	undertaking	products	products	and control their	and control their
	9	• how to make	• how to make	products	products
		strong, stiff shell	strong, stiff shell	• how to	• how to
		structures	structures	reinforce and	reinforce and
		• that a single	• that a single	strengthen a 3D	strengthen a 3D
			~	framework	framework
		fabric shape	fabric shape		
		can be used to	can be used to	• that a 3D	• that a 3D
		make a 3D	make a 3D	textiles product	textiles product
		textiles product	textiles product	can be made	can be made
		 that food 	 that food 	from a	from a
		ingredients can	ingredients can	combination of	combination of
		be fresh, pre-	be fresh, pre-	fabric shapes	fabric shapes
		cooked and	cooked and	• that a recipe	• that a recipe
		processed	processed	can be	can be
		J. 1. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.		adapted by	adapted by
				adding or	adding or
				substituting one	substituting one
					_
				or more	or more
				ingredients	ingredients

	COOKING AND NUTRITION							
	Year 1 (KS1 skills)	Year 2 (KS1 skills)	Year 3 (Lower KS2 skills)	Year 4 (Lower KS2 skills)	Year 5 (Upper KS2 skills)	Year 6 (Upper KS2 skills)		
Where food comes from	Across KS1 pupils should know: • that all food comes from plants or animals	Across K\$1 pupils should know: • that all food comes from plants	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					
	• that food has to be farmed, grown elsewhere (e.g. home) or caught	or animals • that food has to be farmed, grown elsewhere (e.g. home) or caught			In late KS2 pupils should also know: • that seasons may affect the food available • how food is processed into ingredients that can be eaten or used in cooking	In late KS2 pupils should also know: • that seasons may affect the food available • how food is processed into ingredients that can be eaten or used in cooking		
Food preparation, cooking and	Across KS1 pupils should know:	Across KS1 pupils should know:	Across KS2 pupils • how to prepare		ry of predominantly	savoury dishes		
nutrition	 how to name and sort foods into the five groups in The eatwell plate that everyone should 	 how to name and sort foods into the five groups in The eatwell plate that everyone 	how to use a range of techniques such as peeling, chopping,					
	eat at least five portions of fruit and vegetables every day • how to prepare simple dishes safely and hygienically, without	should eat at least five portions of fruit and vegetables every day • how to prepare simple dishes	In early KS2 pupils should also know: • that a healthy diet is made up from a variety and balance of	In early KS2 pupils should also know: • that a healthy diet is made up from a variety and balance of	In late KS2 pupils should also know: • that recipes can be adapted to change the	In late KS2 pupils should also know: • that recipes can be adapted to change the		

using a heat source	safely and	different food	different food	appearance,	appearance,
how to use	hygienically,	and drink, as	and drink, as	taste, texture	taste, texture
techniques such as	without using a	depicted in The	depicted in The	and aroma	and aroma
cutting, peeling and	heat source	eatwell plate	eatwell plate	 that different 	 that different
grating	 how to use 	• that to be	• that to be	food and drink	food and drink
	techniques such as	active and	active and	contain different	contain different
	cutting, peeling	healthy, food	healthy, food	substances –	substances –
	and grating	and drink are	and drink are	nutrients, water	nutrients, water
		needed to	needed to	and fibre – that	and fibre – that
		provide energy	provide energy	are needed for	are needed for
		for the body	for the body	health	health