Annesley Primary & Nursery School Progression Map



Subject: D and T

Intent

The curriculum has a focus upon developing children's skills and knowledge in design structures, mechanisms, electrical control, and materials including food.

	EYFS	Key Stage 1	Key Stage 2		
	Nursery/Year R	Year 1	Year 3	Year 5	
		Year 2	Year 4	Year 6	
Designing	Nursery	Understanding contexts, users and	Understanding contexts, users and	Understanding contexts, users and	
	I can develop my	purposes	purposes	purposes	
	own ideas & decide	Across KS1 pupils should:	Across KS2 pupils should:	Across KS2 pupils should:	
	which materials to	 work confidently within a range of 	 work confidently within a range of 	 work confidently within a range of 	
	use to express	contexts,	contexts, such as the home, school,	contexts, such as the home, school,	
	them.	such as imaginary, story-based, home,	leisure, culture, enterprise, industry and	leisure, culture, enterprise, industry and	
		school,	the wider environment	the wider environment	
	Reception	gardens, playgrounds, local community,	• describe the purpose of their products	 describe the purpose of their products 	
	I can develop my	industry and the wider environment	 indicate the design features of their 	 indicate the design features of their 	
	own ideas through	 state what products they are designing 	products that will appeal to intended	products that will appeal to intended	
	experimentation	and making	users	users	
	with different	 say whether their products are for 	explain how particular parts of their	 explain how particular parts of their 	
	materials such as	themselves or other users	products work	products work	
	loose parts,	 describe what their products are for 			
	recycled and	 say how their products will work 	In early KS2 pupils should also:	In late KS2 pupils should also:	
	natural materials	• say how they will make their products	gather information about the needs	• carry out research, using surveys,	
	and talk about my	suitable for their intended users	and wants of particular individuals and	interviews, questionnaires and web-	
	choices.	use simple design criteria to help	groups	based resources	
		develop their ideas	develop their own design criteria and	• identify the needs, wants, preferences	
			use these to inform their idea	and values of particular individuals and	
		Generating, developing, modelling and		groups	
		communicating ideas		develop a simple design specification	
		Across KS1 pupils should:		to guide their thinking	

		 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 	Generating, developing, modelling and communicating ideas Across KS2 pupils should: • share and clarify ideas through discussion • model their ideas using prototypes and pattern pieces • use annotated sketches, crosssectional drawings and diagrams to develop and communicate their ideas In early KS2 pupils should also: • generate realistic ideas, focusing on the needs of the user • make design decisions that take account of the availability of resources	Generating, developing, modelling and communicating ideas Across KS2 pupils should: • share and clarify ideas through discussion • model their ideas using prototypes and pattern pieces • use annotated sketches, crosssectional drawings and diagrams to develop and communicate their ideas 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
Making	Nursery	Planning	Planning	Planning
	I can use various construction	Across KS1 pupils should: • plan by suggesting what to do next	Across KS2 pupils should: • select tools and equipment suitable	Across KS2 pupils should: • select tools and equipment suitable
	materials, e.g.	select from a range of tools and	for the task	for the task
	joining	equipment, explaining their choices	explain their choice of tools and	explain their choice of tools and
	pieces, stacking	select from a range of materials and	equipment in relation to the skills and	equipment in relation to the skills and
	vertically and	components according to their	techniques they will be using	techniques they will be using
	horizontally,	characteristics.	select materials and components	select materials and components
	balancing, making		suitable for the task	suitable for the task
	enclosures and		explain their choice of materials and	explain their choice of materials and
	creating spaces.	Practical skills and techniques	components according to functional	components according to functional
	Reception	Across KS1 pupils should: • follow procedures for safety and	properties and aesthetic qualities	properties and aesthetic qualities
	I can create	hygiene	In early KS2 pupils should also order the	In late KS2 pupils should also:
	collaboratively	use a range of materials and	main stages of making	• produce appropriate lists of tools,
	sharing ideas and	components, including construction		equipment and materials that they need
	resources.	materials and kits, textiles, food	Practical skills and techniques	• formulate step-by-step plans as a
	I can build on	ingredients and mechanical	Across KS2 pupils should:	guide to making
	previous learning	components	follow procedures for safety and	
	and my	measure, mark out, cut and shape	hygiene	Practical skills and techniques
	understanding of	materials and components	use a wider range of materials and	Across KS2 pupils should:
	tools and materials		components than KS1, including	

	to develop my ideas	assemble, join and combine materials and components	construction materials and kits, textiles, food ingredients, mechanical components and electrical components In early KS2 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	 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 late KS2 pupils should also: accurately measure, mark out, cut and shape materials and components accurately assemble, join and combine materials and components use techniques that involve a number of steps demonstrate resourcefulness when tackling a practical problem 	
Evaluating	Nursery I can talk about what I have made Reception I can discuss problems I have encountered and how I can solve them	Own ideas and products 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 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	Own ideas and products 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 Existing 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	Own ideas and products 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 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 KS2 pupils should investigate and analyse: • how well products have been designed • how well products have been made • why materials have been chosen	

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			 what methods of construction have 	 what methods of construction have
			been used	been used
			 how well products work 	 how well products work
			 how well products achieve their 	 how well products achieve their
			purposes	purposes
			 how well products meet user needs 	 how well products meet user needs
			and wants	and wants
			In early KS2 pupils should also	In late KS2 pupils should also investigate
			investigate and analyse:	and analyse:
			 who designed and made the products 	 how much products cost to make
			 where products were designed and 	 how innovative products are
			made	 how sustainable the materials in
			 when products were designed and 	products are
			made	 what impact products have beyond
			 whether products can be recycled or 	their intended purpose
			reused	
				Key Products and Individuals
			Key Products and Individuals	Across KS2 pupils should know:
			Across KS2 pupils should know:	• about inventors, designers, engineers,
			• about inventors, designers, engineers,	chefs and manufacturers who have
			chefs and manufacturers who have	developed ground breaking products
			developed ground breaking products	
Technical	Nursery	Across KS1 pupils should know:	Across KS2 pupils should know:	Across KS2 pupils should know:
Knowledge	I can use tools for a	• about the simple working characteristics	 how to use learning from science to 	 how to use learning from science to
	purpose	of materials and components	help design and make products that	help design and make products that
		about the movement of simple	work	work
	Reception	mechanisms such as levers, sliders,	 how to use learning from 	 how to use learning from mathematics
	I can use tools	wheels and axles	mathematics to help design and make	to help design and make products that
	independently with	how freestanding structures can be	products that work	work
	care and precision.	made stronger, stiffer and more stable	that materials have both functional	• that materials have both functional
		• that a 3-D textiles product can be	properties and aesthetic qualities	properties and aesthetic qualities
		assembled from two identical fabric	that materials can be combined and	that materials can be combined and
		shapes	mixed to create more useful	mixed to create more useful
		that food ingredients should be	characteristics	characteristics
		combined according to their sensory	• that mechanical and electrical systems	• that mechanical and electrical systems
		characteristics	have an input, process and output	have an input, process and output
		the correct technical vocabulary for the	the correct technical vocabulary for	the correct technical vocabulary for

the projects they are undertaking

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	In early KS2 pupils should also know:	In late KS2 pupils should also know:
	how mechanical systems such as	how mechanical systems such as cams
	levers and	or pulleys or gears create movement
	linkages or pneumatic systems create	how more complex electrical circuits
	movement	and components can be used to create
	how simple electrical circuits and	functional products
	components	how to program a computer to
	can be used to create functional	monitor changes in the environment
	products	and control their products
	how to program a computer to	how to reinforce and strengthen a 3D
	control their	framework
	products	• that a 3D textiles product can be made
	 how to make strong, stiff shell 	from a combination of fabric shapes
	structures	• that a recipe can be adapted by adding
	• that a single fabric shape can be used	or substituting one or more ingredients
	to make a	
	3D textiles product	
	• that food ingredients can be fresh,	
	pre-cooked	
	and processed	

Food and Nutrition				

Nursery

I can make healthy choices

Reception

I can talk about the factors that keep me healthy 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 KS1 pupils should know:

- how to name and sort foods into the five groups in the Eatwell Guide
- 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:

- that a recipe can be adapted a by adding or substituting one or more ingredients
- that food is grown (such as tomatoes, wheat and potatoes), reared (such as pigs, chicken and cattle) and caught (such as fish) in the UK, Europe and the wider world

Food Preparation

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 Across KS2 pupils should know:

- that a recipe can be adapted a by adding or substituting one or more ingredients
- 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 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

Across KS2 pupils should know:

li • v	 how to use a range of techniques such as peeling, chopping, slicing, grating, mixing, spreading, kneading and baking In early KS2 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 Guide that to be active and healthy, food and drink are needed to provide energy for the body 	 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 late KS2 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
		and fibre – that are needed for health

Impact (End Points)							
EYFS	EYFS Key Stage 1		Key Stage 2				
Nursery/Year R	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	

