## **Ghyllgrove Primary School - D&T Curriculum 2020-21**

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Autumn		An Eye on London -	The invisible force –	Romans – Roman		The Americas - Food	
		Structure- Make a	Magnetic game –	soldier sandals –			
Outcomes		landmark- needs to	pulley mechanism	sewing			
		be made stronger,	fish game.	Mad Scientist – Food			
		stiffer and stable.		– Follow a recipe –			
				measure using scales.			
Spring	All Aboard –		Brilliant Bodies –	Rock Stars –	Spies – Electrical	A world without WiFi	
	Mechanisms, chassis		Food –	Structure – musical	power – robots	<ul> <li>Electrical and</li> </ul>	
Outcomes	axels		sandwich/pizza	instrument	Astronomers	mechanisms –	
			dough		Entrepreneurs –	moving toys	
					Trade - Food		
Summer	Ghyllgrove	Carnival of Animals -	Green Fingers –	World War II –	From summit to Sea	World of Wonders –	
	Gardeners – Food	Mechanisms- Make	Structure – mini	Electrical – torch for	- Structures - bridges	Structure – Bug hotel	
Outcomes	technology	animals on wheels.	greenhouse	shelters			
	Toy Museum –	Down on the Farm -					
	Design a toy,	Food- Measure and					
	strengthen	weigh ingredients					
	structures	and understand					
		healthy eating.					
Designing, skills	Design products that h	ave a clear purpose	Investigate existing pro	_	Undertake research to inform design process.		
	and an intended user.		drawing them to analyse and understand how		This may include surveys and interviews.		
			they are made.		Use prototypes, cross-sectional diagrams,		
			Plan a sequence of actions to make a product.		exploded diagrams and CAD software to		
			Develop more than one design.		represen	t designs.	
			Develop prototypes.				
			Year 3 - Generate designs with annotated sketches and computer-aided design (CAD)				
	E 11	I	where appropriate.				
Making skills	Fold, tear and cut	Demonstrate a range	Measure and mark	Measure and mark	Cut materials with	Cut materials with	
	paper or card.	of joining techniques	out accurately.	out to the nearest	precision. 2 Cut	precision and refine	
	Investigate	such as gluing, taping	Cut materials	mm. 🛚 Use and	accurately and safely	the finish with	
	strengthening sheet	or creating hinges.	accurately and safely	explore complex	to a marked line.   Initial completes	appropriate tools	
	materials.	Cut materials safely	by selecting	popups. 2 Cut slots	Join/combine	(such as sanding	
	Roll paper to create	using tools provided.	appropriate tools.	and internal shapes.	materials with	wood). 2 Show an	
	tubes.	Demonstrate a range	Cut slots.	Create nets.	temporary, fixed or	understanding of the	
	Demonstrate a	of cutting and			moving joints.	qualities of materials	

	range of joining	shaping techniques				to choose
	techniques such as	such as tearing,				appropriate tools to
	gluing or taping.	cutting, folding and				cut and shape
	Measure and mark	curling.				'
	out lines.	Use simple pop-ups.				
Evaluating skills	Say what they like and		Refine work and techni	ques as work	Consider the views of others when evaluating	
	product and explain why. 🛭 Talk about how		progresses, continually evaluating the product		their own work. 2 Ensure products have a high	
	closely their finished p	roduct meets their	design.		quality finish, using art skills where	
	design criteria		Identify strengths and weaknesses of their		appropriate. Justify their decisions about	
			design ideas.		materials and methods of construction. 2	
			Talk about how closely their finished product		Make suggestions on how their	
			meets their design criteria and meets the		design/product could be improved.	
			need of the user.			
Specific skills,	Evolore structures over	oloring how they can be	Strengthen and	Strengthen and	Strengthen and sti	ffen more compley
knowledge and		•	stiffen more complex	stiffen more complex	Strengthen and stiffen more complex structures	
concepts –	made stronger, stiffer and more stable  Layering, gluing		structures	structures.	Join materials using a	
STRUCTURES	Layering, gluing		Strengthen frames	Structures.	Join materials using a	appropriate methods
STRUCTURES			using diagonal struts.	Investigate how to		
			using diagonal strats.	make structures		
				more stable e.g by		
				widening the base		
Specific skills,	Attach wheels to	Use a range of	Begin to use	Understand and use	Use a cam to make	
knowledge and	chassis using an axle.	materials to create	mechanical systems	mechanical	an up and down	
concepts -		models with wheels	in their products e.g.	structures in their	mechanism	
MECHANISMS		and axles e.g. tubes,	gears, pulleys and	products e.g. gears,		
		dowel and cotton	levers.	pulleys, levers and		
		reels.		gears		
Specific skills,	Understand where	Group foods into the	② Know that a	② Measure	Assemble or cook	Combine ingredients
knowledge and	food comes from. 2	five groups in The Eat	healthy diet is made	ingredients using	ingredients,	appropriately e.g.
concepts – FOOD	Group familiar food	well Plate.	up from a variety of	scales.	controlling the	beating or rubbing.
	products e.g. fruit	Cut, grate or peel	different food and	Prepare ingredients	temperature of the	Measure ingredients
	and vegetables.	ingredients safely.	drink, as depicted in	hygienically and using	oven or hob if	to the nearest gram
	Cut ingredients	Prepare simple	The Eat Well Plate.	the appropriate	cooking.	and millilitre and
	safely.	dishes-safely and	Measure and weigh	utensils by following	Measure accurately	calculate ratios of
	Prepare simple	hygienically-without	ingredients	a recipe	using different	ingredients to scale
	dishes-safely and	using a heat source.	appropriately. 🛚		equipment.	up or down from a
	hygienically-without	Measure or weigh	Follow a recipe.		Create recipes,	recipe.
	using a heat source.	using cups or			including ingredients,	Understand

	electronic scales.			methods, cooking times and temperatures. Understand the importance of correct storage and handling of ingredients.	seasonality and know where and how a variety of ingredients are grown, reared, caught and processed. Create and refine recipes, including ingredients, methods, cooking times and temperatures.
Specific skills, knowledge and concepts – Electrical and computing systems		Create series circuits.	Create series and parallel circuits.	Control a model using an ICT control model.	Create circuits that employ a number of components (such as LEDs, resistors and transistors).
Featured designers and inventors					