## INTENT

## Design and Technology Curriculum Year A: Planning, Progress and Long-Term Knowledge Growth

YEAR 1/2	Substantive Design and Technology content	Recurring substantive themes, ideas and language (Key Concepts)	Subject rationale: Supporting pupils' wider design and technology curriculum journey	Basic disciplinary training in design and technology
Autumn	To look at examples of moving toys and explore their mechanisms	Taught alongside the history unit of	Building on prior learning in the	Through this work pupils
Term	(wheels, axels, wind up, spring). Understand that different	changes in living memory, this unit	EYFS of how things work this unit	will draw on disciplines
	mechanisms produce different types of movement. Evaluate	will develop pupils knowledge and	will deepen children's	such as mathematics,
Mechanisms	products we have seen.	understand that different mechanisms	knowledge of the mechanisms	science, engineering,
(Moving		produce different types of movement	that make things move. This unit	computing and art.
toys) –	To know what Design criteria is and how it can be used to create a	to make a toy move. Pupils will	will support later work in LKS2	
wheels &	product.	further develop their knowledge of	on mechanisms through moving	Pupils learn how to take
axels		how to design, make and evaluate	animals and Roman catapults.	risks, becoming
	To explore mechanisms using a range of materials.	products.	It supports later work in UKS2 on	resourceful, innovative,
		They will know and use technical	construction of wooded toys,	enterprising and capable
	To generate and communicate their design ideas through talking	vocabulary relevant to the project.	balloon buggies and Mars Rovers	citizens.
	and drawing.	Such as <b>design, purposetul</b> ,	(Lego Wedo)	Children will leave to
	Produce a mock-up of their design and test it.	functional, appealing, criteria,		children will learn to
	To know how to avaluate their product against the design criteria	ovaliara ganarata avaluata improvo	This unit links to our oso school	quality prototypes and
	and suggest improvements	mork un test	tonics of transport	products as well as
				critique, evaluate and
	Make improvements for final product.			test their ideas and
				products.
Spring Term	To know the food groups that different healthy foods belong and	Taught alongside the geography unit	This unit will build on prior	Through this work pupils
	demonstrate by selecting appropriate combinations for a singular	'The British Isles', pupils will further	learning in the EYFS where	will draw on disciplines
Cookery –	meal	develop their knowledge of healthy	children grow their own	such as mathematics and
traditional		and unhealthy foods as well as	vegetables and make soup, fruit	science.
foods of the	Find out where food comes from.	regional foods associated with	salad, Christmas cake & apple	
UK		location. They will further develop	juice. It supports later work in	Pupils will understand
	To know the purpose of different tools and which to select for use in	their skills when using a range of tools	LKS2 on food technology.	and apply the principles
	preparing food (eg colander, sieve, spatula, roller, cutter, peeler,	in a safe and hygienic environment.	It supports later work in UKS2 on	of nutrition and learn
	masner).	from the 4 countries of the LIK. Dunils	Cooking Egyptian bread.	now to cook.
	Explore the properties of food using a range of tools (outting	will become secure in the vocabulary		
	weighing measuring) safely and hygienically	of make, evaluate, cut, weigh.		
		measure, hygienic, nutrition, safety.	This unit links to our eco school	
		affordability	topics of <b>global citizenship and</b>	
	Use a range of tools and equipment to make their own traditional		waste.	
	foods (oat or potato cakes, Welsh cakes, scones & soda bread),			

	thinking about the ingredients they will use and how they will			
	construct it.			
	Use all of their senses to evaluate their cooking.			
Summer	. Know that a range of tools can be used for different purposes:	This unit is taught alongside the	This unit will build on prior	Through this work pupils
Term	cutting, sticking, curling, bending, joining etc.	history unit of Castles, Kings and	learning in the EYFS on joining	will draw on disciplines
		Queens; the geography unit on human	materials through junk	such as mathematics,
Structure	To know how to join components together effectively	and physical features and the science	modelling. It supports later work	science, engineering,
		unit on materials. Through this unit	in LKS2 on structures when	computing and art.
	To understand how structures can be made stronger and stiffer.	pupils will develop their knowledge	building bridges.	
	Build structures by selecting appropriate materials and investigating	and understanding of mechanisms	It supports later work in UKS2 on	Pupils learn how to take
	ways to strengthen them.	and use of suitable materials. Pupils	construction through wooden	risks, becoming
		will further develop their knowledge	toys and willow structures.	resourceful, innovative,
	Design, develop and create turrets, castles and drawbridges using	of how to design, make and evaluate		enterprising and capable
	knowledge from their investigation and design criteria.	products.		citizens.
		They will know and use technical	This unit links to our eco school	
	Evaluate their ideas throughout the process and review their	vocabulary relevant to the project.	topics of litter.	Children will learn to
	products against original criteria.	Such as <b>design, purposeful,</b>		design and make high-
		functional, appealing, criteria, ,		quality prototypes and
		explore, generate, evaluate, improve,		products, as well as
		mock up, test, stable, strong,		critique, evaluate and
		structure		test their ideas and
				products.