Design &		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Technology		Cooking and nutrition: Soup In this unit, children explore the differences		Structures: Junk modelling In this unit, pupils explore and learn about		Structures: Boats	
	Winter	between fruits and vege senses (taste, texture, si to the story 'The best pu discuss the key ingredie before developing a class soup recipe.	etables using their mell etc.). They listen umpkin soup' and nts the characters used	yarious types of permai join. They are encourag combination of materia techniques in the junk r	nent and temporary ed to tinker using a Is and joining	In this unit, children explore what is meant by 'waterproof', 'floating' and 'sinking', then experiment and make predictions with various materials to carry out a series of tests. They learn about the different features of boats and ships before investigating their shape and structures to build their own.	
Rotation 1			Mini Units to devel	op other skill areas		Main DT focus	
	Spring 1/2	Food – Cooking and nutrition: Fruit and vegetables Link to Science Humans Learn to distinguish between fruit and vegetables and where they grow. Design a fruit and vegetable smoothie and accompanying packaging.				Mechanisms: Wheels and axles Learn about the key parts of a wheeled vehicle, to develop an understanding of how wheels, axles and axle holders work. Design and make a moving vehicle.	
	Summer 3/4	Electrical systems: Torches <i>Link to Science Electricity</i> Identify the difference between electrical and electronic products. Evaluate a range of existing torches and their features, then develop a new functional torch design.		Mechanical systems: Explore pneumatic sys understanding to desi pneumatic toy includi and exploded diagram		ems, then apply this n and make a g thumbnail sketches	
	Autumn 5/6			Electrical systems: Stea Link to Science recall of Understand what is me design and form follows develop a steady hand a circuit, including housin	<i>electricity</i> ant by fit for purpose s function. Design and game using a series	Structure: Playgrounds Research existing playground equipment and their different forms, before designing and developing a range of apparatus to meet a lis of specified design criteria.	

Design & Technology		Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
Rotation 2	Winter	Cooking and nutrition: Soup In this unit, children explore the differences between fruits and vegetables using their senses (taste, texture, smell etc.). They listen to the story 'The best pumpkin soup' and discuss the key ingredients the characters used before developing a class-based vegetable soup recipe.		Structures: Junk modelling In this unit, pupils explore and learn about various types of permanent and temporary join. They are encouraged to tinker using a combination of materials and joining techniques in the junk modelling area.		Structures: Boats In this unit, children explore what is meant by 'waterproof', 'floating' and 'sinking', then experiment and make predictions with various materials to carry out a series of tests. They learn about the different features of boats and ships before investigating their shape and structures to build their own.	
			Mini Units to deve	lop other skill areas		Main DT focus	
	Spring 1/2	Cooking and nutrition: Learn about the food groproteins, fruits and vege spreads) to understand develop a healthy wrap.	oups (carbohydrates, etables, dairy, oils and a balanced diet to			Structures: Constructing a windmill Inspired by the song, 'Mouse in a windmill', design and construct a windmill for a client (mouse) to live in. Explore various types of windmill, how they work and their key features.	
	Summer 3/4	Cooking and nutrition: Eating seasonally Learn about various fruits and vegetables, and when, where and why they are grown in different seasons. Discover the relationship between colour and health benefits.				Structures: Constructing a castle Identify and learn about the key features of a castle, before designing and making a recycled- material castle (structure).	
	Autumn 5/6	Cooking and nutrition: Work in groups to adapt recipe, whilst taking into the ingredients and othe set budget.	t an existing biscuit account the cost of			Mechanical systems: Po Create a functional four storybook design, using and spacers to create pa mechanisms.	r-page pop-up lever, sliders, layers