	Year 1			Year 2		
	Autumn	Spring	Summer	Autumn	Spring	Summer
	What's so good about the great outdoors?	Would you want to be an explorer in space?	Coast or Market Town: which is best?	How do we know about dinasaurs?	Who is James Cook and why is he important in history?	How does your garden grow? A comparison between the UK and India
Concept	Food	Mechanisms	Structures	Textiles	Mechanisms	Food
Design Brief	Product: User: Purpose:	Product: User: Purpose:	Product: A vertical pier User: Tourist Board Purpose: To attract tourists	Product: User: Purpose:	Product: Puppet show with a slider User: My friends Purpose: To entertain	Product: User: Purpose:
Key Text	DE WICKSO		IG FECHTECT			
Materials	A range of healthy food	Wheels Axels Cardboard Boxes Card Straws	Cardboard Pipe cleaners Paper Tubes Bottles String	Fabric, Thread, Needles, Stencils	Card Lolly Sticks Paper	A range of food Spices Grains
End point	A healthy snack	Moon buggy	A vertical pier	A Christmas jumper card	Puppet Show using slider	Indian dish
Key References in DT	Joe Wicks	Henry Ford NASA Neil Armstrong	Antony Gaudi (Architect)	The Great British Sewing Bee	Clintons cards (interactive cards), Lego (toy maker) Punch and Judy	Sanjeev Kapoor (Indian chef)
Science Link				Year 2 – Animals Including Humans		Year 1 - Animals including Humans
Key Vocabulary	ldeas, Product, Ingredients, Healthy, Unhealthy, Slicing, Diet	Research, Evaluate, Design, Assemble, Replica, Design Criteria	Strong, Design Criteria, Join, Free Standing, Improve	material, tools, stitch, running stitch, fabric, binca	Slider, Slot, Mechanism, Guide	Dish, Weigh, Ingredients, Equipment structure, Recipe

	Year 3			Year 4		
	Autumn	Spring	Summer	Autumn	Spring	Summer
	Stone Age to Iron Age: What was life like and how do we know?	What does our local history tell us?	What did Ancient Egyptians achieve?	What was the impact of the Roman Empire on Britain?	Why did Anglo Saxons invade Britain?	How does the water cycle affect rivers?
Concept	Food	Structures	Mechanisms	Mechanisms	Textiles	Mechanisms
Design Brief	Product:	Product:	Product:	Product:	Product:	Product:
	<b>O</b> <sub>User:</sub>	<b>B</b> <sub>User:</sub>	<b>B</b> <sub>User:</sub>	<b>e</b> <sub>User:</sub>	<b>B</b> <sub>User:</sub>	<b>B</b> <sub>User:</sub>
	Purpose:	Purpose:	Purpose:	Purpose:	Purpose:	Purpose:
						13 Bridges Outer Shall Arr
Materials	A range of fruits	Cardboard Card Paper Paint	Lolly sticks, Wood, Mechano, Nails, Paper tubes, Yoghurt pots	Boxes, Card, Balloons, Syringes , Tubing	Fabric , Thread, Needles, Buttons	Lolly sticks, Wood, Mechano, Nails, Paper tubes, Yoghurt pots
End point	Stewed Fruit crumble	Modern house	Sandpit scale prototype	Mythical creature with opening mouth	Purse/wallet	A Bridge
Key References in DT	Mary Berry Nadia Hussain	George Clarke (Architect)	Belleville Park -Paris, France (famous playground), Jungle Gym -Nashville, Tennessee (famous playground), Nishi- Rokugo Park -Tokyo, Japan (famous playground)	Tyre pump Exercise equipment	Coco Chanel Vivienne Westwood Gucci	Isambard Kingdom Brunel
Science Link	Year 1 – Animals Including Humans Year 2 – Animals Including Humans	Year 1 – Everyday materials	Year 3 - Forces	Year 2 - Living things and their habitats		
Key Vocabulary	Stewed, Harvesting, Boil, Simmer, Temperature, Preference, Bitter	Stable, Centre of Gravity, Join, Free Standing, Base	Series circuit, Prototype, Components, Monitoring System, Input Devices, Output Devices	Pneumatics, Reinforce, Structure, Pressure, Input, Output, Seal	Design Criteria, Purpose, Function, Prototype, Evaluate, Adapt, Tools	beam bridge, arch bridge, truss bridge, rigid, stability, joints, hardwood, softwood, reinforce, evaluate

	Year 5			Year 6		
	Autumn	Spring	Summer	Autumn	Spring	Summer
	What is the legacy of the Greeks on British history?	Mountains, volcanoes and earthquakes – awesome or	What was it like to live during the Victorian Fra in	Raiders or Settlers: how should we remember the	Climate zones, biomes and vegetation belts: a study on physical	Why do we study the Maya in history?
		fearsome?	Britain?	Vikings?	geography across the globe	
Concept	Structures	Electrical Systems	Food	Mechanisms	Electrical Systems	Food
Design Brief	Product:	Product:	Product:	Product:	Product:	Product:
	<b>e</b> <sub>User:</sub>	<b>O</b> <sub>User:</sub>	<b>O</b> <sub>User:</sub>	<b>O</b> <sub>User:</sub>	<b>O</b> <sub>User:</sub>	<b>O</b> <sub>User:</sub>
	Purpose:	Purpose:	Purpose:	Purpose:	Purpose:	Purpose:
Key Text		Story Inventions		PULL. IFT VLOWER		
Materials	Cardboard, Card, Wire, Bottles, Mechano, Light bulbs, Wires, Batteries, Crocodile clips, Switch	Buzzers, Motors, Batteries, Light bulbs, Wires, Crocodile Clips	A range of food, A range of cooking/baking equipment	Range of Wood, Fabric, Saw, hammer, nails, vice etc, Glue gun, Wheels, Axels Variety of joining materials, Pulley resources, (Mechano/K'NEX), String	We Do Lego set Mechano set	A range of food, A range of food, preparation/cooking resources
End	Famous Landmark	Alarm	Traditional British Afternoon	Boat with functioning sail	Wind Turbine	Mexican dip
point		Notes and the second seco	Tea Contraction of the second se			
Key References in DT	Zaha Hadid Eifel Tower Leaning Tower of Pizza Big Ben/London Eye Coliseum	Thomas Edison Burglar alarms, Earthquake monitors etc., Motion sensors, Baby monitors, Ring doorbell	Great British Bake off Paul Hollywood Prue Leith David Atherton (previous bake off winner – local)	Life boat (RNLI) Sailing boat Viking long ship Speed boat Rowing boat Ferry	Ada Lovelace Redcar Wind Farm David Attenborough	Jamie Oliver Enrique Olvera (Mexican chef)
Science Link	Using electricity circuits to ensure their landmark lights up.	Year 4 – Electricity Retrival				
Key Vocabulary	Annotated drawing, Purpose, Design Specification, Design brief, Circuit, Mechanical system, Switch	Design, Annotate, Evaluate, Stitch, Accurate, Measure	Test, Refine, Culture, Society, Justify, Criteria, Market research, Evaluate, Critique	Woodwork, Sturdy, Stiff, Annotated drawing, Functionality, Gravity, Drawbacks, Mechanical system, Components	Renewable energy, Program, Wind turbine, Process, Computer control input, Specification	Harvest, Maize, Cacao, Seasonality, Imported food, Hygienic, Crop, Compliment



Key Design Technology Concepts
Food Textiles
Our DT Concepts Our DT Concepts are based on the aims of the National Curriculum and are progressive through school.
Mechanisms
Pupils will explore how mechanisms work, and use mechanical systems such as levers, wheels, cams, gears and pulleys in products that children design themselves.
Structures
Pupils will learn how to make purposeful products, which are string and sturdy. Pupils will design, develop, make, strengthen and reinforce structures.
Textiles
Pupils will learn how to shape and join textiles to make attractive products. Pupils will explore how to choose and use materials according to function and aesthetic products.
Food
Learning how to prepare a range of healthy, nutritious meals is a vital life skill. Pupils will learn how to make a range of cookery products.
Electrical Systems
Pupils will have opportunities to explore electrical systems, the materials they are made from and how they work before creating their own product using an electrical system.