

Science long term plan	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Early Years	Do you want to be friends?	What happens when I fall asleep?	Once upon a time	Are we there yet?	Sunshine and sunflowers	Big wide world
Nursery					We need to stay safe in the sun. Plants need water and sun. How to plant a seed. Animals live in different homes. We eat plants. Matching mother and baby animals. Sort the animals that live in the air, water and on land. Plants and animals are living things. Dinosaurs lived a long time ago and are now extinct.	Some places are hot and some are cold in the world.
Reception	Learn about healthy lifestyles and why they are important.	The Moon and stars. Nocturnal animals. People who work at night. The importance of sleep and rest. We live on the Earth. Above the sky is space and Astronauts travel in space in rockets.	Different types of transport and how things move.		How to care for the plants and animals in their local environment and how to stay safe in the sun. How to grow plants and what they need to survive. Mini-beasts and animal homes.	They will learn about habitats, climates. They will learn how litter plastic waste can cause harm to plants and animals in the environment.
Year 1	Dinosaur Planet	Bright Lights, Big City	Paws, Claws and Whiskers	Moon Zoom	School Days	
Seasonal changes- weather in the seasons. Maths Meetings throughout the year.	Animals- sort animals by diet. Body parts. Living things- changes	Seasonal changes- changes across four seasons. Different weather and simple equipment to measure.	Animals- six main groups, describing animals and how to care for them. Senses. Living things- local environment habitat.	Materials- Identify, describe and sort materials by properties.		Science week Plants - structure of plants.
	Why do we have two eyes?	How do you make bread?	What can a worm sense?	What keeps us dry?	How wild is the wind?	Plan Parts unit
Year 2	Muck, Mess and Mixtures	Wriggle and crawl	Magnificent Monarchs		Coastline	
	Healthy lifestyles- exercise, diet and good hygiene.	Animals- What animals need to survive. Animal offspring. Living things- Microhabitats and food chains.	Materials- how materials can be changed and their suitability to a purpose.		Living things- Describe different habitats.	Science week Plants- What plants need to grow and how the change over time.
	Can water make music?	Where do worms like to live?	Can you make a paper bridge?			Will it degrade?

Year 3	Through the Ages	Scrumdiddly-umptious	Rocks, Relics and Rumbles	Discover Doncaster	Emperors and Empires	
	Plants- plant functions, how water is transported. Requirements for growth and lifecycle.	Healthy lifestyles- balanced diets and different food groups.	Materials- group and compare rocks. Investigate soils and fossils.	Light- Light sources, darkness, shadows and transparent objects.	Animals including humans- Skeletons and muscles, compare and contrast the diets of different animals.	Science week Forces and materials- push and pulls, friction. Grouping materials based on properties, magnets.
	Why are trees so tall?	Is it safe to eat?	What is soil?	Why do shadows change?	What are our joints for?	How mighty are magnets? What does friction do? Why do magnets attract and repel?
Year 4	Traders and Raiders	Transformations	Misty Mountain, Winding River		Blue Abyss	North and South America
	Animals including humans- teeth and the digestive system.	Materials- changing states, solids, liquids and gasses. Changing by heating and cooling.	Living things- describe how environments can change. Seasonal changes- describing the water cycle.	Animals- Food chains and webs. Living things- Compare, sort and group living things.	Electricity- Construct simple circuits with component and switches. Conductors and insulators. Science week Sound How sounds are made? Comparing ad changing pitch and volume.	
	How does toothpaste protect our teeth?	Are all liquids runny?	Where does water go?	How does pollution affect habitats?	How far can a sound travel? How can we change a sound? What conducts electricity?	
Year 5	Beast Creator	Pharaohs	Sow, Grow and Farm	Stargazers	Groundbreaking Greeks	
	Animals- how population changes effect food chains and webs. Living things- compare lifecycles of different animals.		Living things- plant reproduction. Materials- group materials (hardness, solubility, transparency, conductivity, magnetism). Dissolving, evaporating, filtering and sieving mixtures. SRE week- Changes in humans from birth to old age. Human reproduction.	Earth and Space- Solar system, Earth, Moon and Sun, Day and night. Forces- Gravity Materials- Reversible and irreversible changes.		Science week- Forces- water resistance, air resistance and friction. Demonstrate leavers, pulleys and gears to assist movement.
	What is the lifecycle of a mealworm?	Do we slow down as we get older?	Can you clean dirty water?	How do rockets lift off?	Do all solids dissolve?	Why are zip wires so fast? What do pulleys do?
Year 6	A Child's War	Blood Heart	Frozen Kingdoms		Hola Mexico!	
	Electricity- circuits using a range of components, drawing circuit diagrams, changing brightness of bulbs and the volume of buzzers.	Animals including humans- Circulatory system. Healthy living- the effect of positive and negative lifestyle choices on the body.	Living things and their habitats- classification systems, compare living things in two contrasting areas of a habitat.		Light- reflection, changing shadows, concave and convex lenses, rainbows and refraction.	Science week- Evolution and inheritance- Describe changes overtime. Evolution, selective breeding, inheritance, how animals are adapted to suit their environment.
	Can you send a coded message?	How does blood flow?	Why are things classified?	Why do birds have different beaks?	What colour is a shadow?	How have eyes evolved? How does inheritance work?