

Topic Theme		End Points
EYFS	Understanding the World	<ul style="list-style-type: none"> Explore the natural world around them, making observations and drawing pictures of animals and plants Know some similarities and differences between the natural world around them and contrasting environments, drawing on their experiences and what has been read in class Understand some important processes and changes in the natural world around them, including the seasons and changing states of matter
Year 1	Seasons	<ul style="list-style-type: none"> To note the changes between the seasons To observe and describe the weather associated with each season To collect data to show how daylight lengths vary dependent on the season
	Animals including humans	<ul style="list-style-type: none"> To identify, name and draw basic human body parts e.g. eyes, ears, nose, arms To understand that senses are linked to different parts of the body e.g. nose and smell To use senses to compare different textures, sounds and smells
	Materials	<ul style="list-style-type: none"> Identify and describe the physical properties of a variety of every day materials Compare and group materials based on their properties
	Animals	<ul style="list-style-type: none"> Identify and name a variety of animals, including fish, amphibians, reptiles and mammals Describe and compare the anatomy of common animals: fish, amphibians, reptiles, birds, mammals and pets) Identify the characteristics of carnivores, herbivores and omnivores
	Plants	<ul style="list-style-type: none"> To identify and name a variety of common garden plants, including deciduous and evergreen trees To identify and describe the basic structure of a variety of flowering plants as well as trees
	Materials	<ul style="list-style-type: none"> Identify and describe the physical properties of a variety of every day materials Compare and group materials based on their properties To be able to distinguish between an object and the material it is made of To suggest reasons as to why a material would be suitable for an object to be made from To use observations to prompt questions about different materials To perform simple tests based on observations made about materials
Year 2	Living Things	<ul style="list-style-type: none"> Classify things by living, dead or never lived Know the basic stages of a life cycle of animals (including humans) Use equipment such as thermometers to help observe changes to local environment over time
	Healthy Living	<ul style="list-style-type: none"> Know why exercise, a balanced diet and good hygiene are important for humans Know about and explain a simple food chain Name several different food sources
	Properties of Materials	<ul style="list-style-type: none"> Know why a material might or might not be used for a specific job Group things according to a criteria, e.g. natural or man-made Ask questions to investigate, e.g. which is the strongest?
	Changing Materials	<ul style="list-style-type: none"> Know how materials can be changed by bending, twisting, stretching etc Draw a conclusion and explain what has been found out

	Habitats	<ul style="list-style-type: none"> • Match living things to their habitat • Know how a specific habitat provides basic needs of the living things there • Ask questions such as, Why do some animals have underground habitats? • Use handheld lenses to find out more about small creatures and plants
	Plants	<ul style="list-style-type: none"> • Know and explain how seeds and bulbs grow into plants • Know what plants needs in order to grow and stay healthy (water, light, temp) • Know how to set up a fair test and do so to investigate how seeds grow best • Use measures to help find out more about the investigations they are engaged with.
Year 3	Rocks	<ul style="list-style-type: none"> • Compare and group rocks based on their appearance and properties • Know how soil is made and fossils are formed • Explain the difference between sedimentary, metamorphic, and igneous rocks
	Forces	<ul style="list-style-type: none"> • Describe how objects move on different surfaces • Explain how a pulley works and use one to lift and object • Explain why magnets attract and repel. Make predictions about whether they will attract or repel and explain why • Explain which forces require contact and which do not
	Plants	<ul style="list-style-type: none"> • Know how water is transported in plants • Explain the importance of flowers in plants • Know the plant life cycle
	Light	<ul style="list-style-type: none"> • Know that dark is the absence of light • Know that light is needed in order to see and is reflected from a surface • Know and demonstrate how a shadow is formed and explain how a shadow changes shape • Know about the danger of direct sunlight and describe how to keep protected
	Animals including humans	<ul style="list-style-type: none"> • Know why a nutritious, balanced diet is important for humans • Know how nutrients, water and oxygen are transported within animals • Know what the skeleton is what it's function is. Know what the muscular system is and how it works
	Plants	<ul style="list-style-type: none"> • Identify the parts of flowering plants and trees • Know the function of the different part of flowering plants and trees
Year 4	Electricity	<ul style="list-style-type: none"> • Identify and name appliances that require electricity to function • Construct a series circuit • Identify and name the components in a series circuit • Predict and test whether a bulb will light in a circuit • Know and explain the function of a switch • Explain the difference between conductors and insulators
	Sound	<ul style="list-style-type: none"> • Explain how sound is made, linking to vibrations • Explain how sounds travels from source to ear • Explain the correlation between pitch and the object producing sound • Explain the correlation between volume and strength of vibrations • Explain what happens to a sound as it travels away from source
	Changes of State	<ul style="list-style-type: none"> • Know the temperature that water changes state • Know and explore how some materials can change from solid to liquid or liquid to gas • Know the difference between evaporation and condensation and the part it plays in the water cycle • Group materials into solids, liquids and gases
	Human Nutrition	<ul style="list-style-type: none"> • Identify and name parts of the human digestive system: tongue, oesophagus, stomach, small intestine, large intestine, mouth

		<ul style="list-style-type: none"> • Know the functions of the organs in the digestive system: large intestine, small intestine, stomach • Identify and name the different types of human teeth: incisors, canines, premolars and molars • Know the different functions of incisors, canines, premolars and molars
	Living Things	<ul style="list-style-type: none"> • To compare and contrast different living things based on their specific characteristics
	Dangers to Living Things	<ul style="list-style-type: none"> • Use food chains to identify producers, predators and prey and know their roles in the life cycle • Know how environmental factors endanger living things e.g. global warming, floods, deforestation
Year 5	Properties and changes in materials	<ul style="list-style-type: none"> • Compare and group objects based on their properties e.g. hardness, solubility, transparency, response to magnets • Know and explain how a material dissolves to form a solution • Know how you can recover a substance from a solution • Know and demonstrate how sieves, filter paper and evaporation can be used to separate materials • Know that some changes are reversible whilst others aren't and the reasons why • Know that some changes result in the formation of a new material and understand that these changes are often irreversible e.g. when you burn a material
	Forces	<ul style="list-style-type: none"> • Know that gravity is a force that pulls things towards earth • Know the effects of air and water resistance on the movement of an object • Identify that friction is a force and how it can be used to slow objects down e.g. grips on shoes • Explain how levers, gears and pulleys can allow a smaller force to have greater impact
	Earth and Space	<ul style="list-style-type: none"> • Know how earth orbits the sun on its axis • Know how the planets in our solar system orbit the sun • Know how the moon orbits the earth and the time it takes • Demonstrate how night and day are formed
	Living Things and their Habitats	<ul style="list-style-type: none"> • Know the life cycles of mammals, amphibians, insects and birds • Know that different living things have different life cycles • To understand how pollination leads to the reproduction of plants • To understand how different animals reproduce to produce offspring
	Animals including humans	<ul style="list-style-type: none"> • To understand the different stages of human life from birth to death • To create a timeline to indicate each stage of growth in humans: birth, childhood, puberty, adulthood, old age
Year 6	Light	<ul style="list-style-type: none"> • Know that light appears to travel in straight lines • Know and demonstrate how we see objects • To understand how shadows are formed and that they take the same shape as the object that cast them • To understand how an object's transparency affects its shadow • To know how objects can reflect and refract light
	Electricity	<ul style="list-style-type: none"> • To use the correct symbols to draw circuits • To know how voltage and amount of cells can affect components • To evaluate the effectiveness of a circuit

	Evolution	<ul style="list-style-type: none"> • To know how fossils can be used to find out about the past • To know how animals and plants are adapted to their environment • To recognise that offspring vary from their parents • To know how the planet has changed over time
	Living things	<ul style="list-style-type: none"> • Classify living things into broad groups based on their specific characteristics • To understand the reasons for classifying living things into groups • To give well informed reasons for the classification of plants and animals
	Our bodies	<ul style="list-style-type: none"> • To know how nutrients and water are transported through the human body • To know how to live a healthy life through exercise and a balanced diet and understand the dangers of drugs • To identify and name the human circulatory system: lungs, heart, aorta, bronchioles, ventricles, capillaries, blood vessels, veins • To know the function of the heart and the role it plays pumping blood around the body