

KS2 Long Term Overview				
Term 1	Year 3	Year 4	Year 5	Year 6
How bodies work!	Children in Year 3 will be learning about the importance of nutrition. They will be taught to understand the importance of food for both humans and animals. They will understand the similarities and differences between the structure of animals and humans. They will begin to learn key vocabulary linked to skeletons and muscles.	Building upon their knowledge of nutrition, children in year 4 will learn the importance and function of the digestive system for humans. Children will learn key vocabulary in relation to humans' teeth and investigate the uses of the different teeth we have. Children will begin to interpret simple food chains and begin to grasp the important role they play in our environment.	As children move into upper KS2, they will build on previous knowledge and will strengthen their understanding of the functions of the human body. Children will learn to identify scientific evidence to support or refute arguments. They will identify and describe the changes they see as a human develops.	In year 6 children will be expected to identify and label more complex parts of the human body. They will investigate and communicate the functions of the heart, blood and blood vessels. The children will understand how lifestyle and choice can affect the way a human body functions. They will describe the importance of nutrients and water and will report how these are transported through humans and animals.
Term 2	Year 3	Year 4	Year 5	Year 6
Into the Light (light)	In year 3, children will recognise the importance of light and the absence of light is darkness. They will understand how light is reflected from surfaces and begin to understand how shadows are formed. They will recognise how the sun is an important source of light and be aware of the dangers.			
Changes (States of Matter)		Children in Year 4, will identify and classify materials based on whether they are solid, liquid or gas. They will investigate how materials' state can be changed. They will record data when temperature changes. They will observe both evaporation and condensation and the part they play in the water cycle.		

Properties of Materials			In year 5, children will compare and categorise everyday materials. They will build on their states of matter topic in year 4 by investigating changes of materials and separating mixtures. They will identify and give scientific reasons for uses of materials. They will recognise reversible and irreversible changes.	
Only Can We Save the World! (Habitats)				Children will develop how they categorise plants, animals and microorganisms by observing similarities and differences. They will give reasons for classifying living things based on focused characteristics.
Term 3	Year 3	Year 4	Year 5	Year 6
Using Force (forces)	In year 3, children will investigate and record how objects move on a range of surfaces. They will identify the force between magnets as well as other materials, as well as understanding opposite poles. They will build on prior knowledge in KS1, and categorise materials that are magnetic and nonmagnetic.		Children in Year 5, will begin to articulate the effect of gravity. They will investigate air resistance, water resistance and friction. They will understand and recognise the small force within mechanisms.	
Making Waves (Sound)		Year 4 children recognise that sounds occur with vibrations and how they travel from a medium to their ear. They will identify and investigate pitch and patterns within sound as it changes volume. They will record and measure how sound changes with distance.		
Prehistoric Predators				They will understand how fossils help us to predict and investigate

(evolution)				life millions of years ago. Children will recognise how living things produce offspring of the same species but are not identical. They will understand and observe the importance of the environment for living things. They will link their findings to communicate how animals and plants have adapted through evolution to suit their environments.
Term 4	Year 3	Year 4	Year 5	Year 6
Lets Rock!	In year 3, children will observe and categorise rocks based on properties and appearance. They will investigate how fossils are developed over time. Children will understand how rocks and organic matter can develop into soil.			
Nurturing Nature (Habitats)		In Year 4 children will be learning how to classify living things in a group of ways. They will explore the impact of changes on environments and how this affects living things. They will be asking questions and observing a variety of living things around them.		
Protect Our Planet! (plants & habitats)			Children will be able to observe and describe the life process of a plant. They will spend time looking at ecosystems and habitats. They will be able to understand how animals adapt to their habitats. It will also give the children an opportunity to access our Trust Bee Hive.	

Travelling Light				In year 6, children will investigate and observe how light appears to travel in straight lines. They will use scientific evidence to understand how objects are seen by the eye. They will predict and observe the effect of light when creating shadows.
Term 5	Year 3	Year 4	Year 5	Year 6
Ready, Steady, Sow! (plants)	In year 3, children will investigate and record the most effective environment for plants to grow. They will describe the functions of parts of flowering plants and explore how water is transported within plants. They will identify by using scientific evidence to describe the flower life cycle.			
Bright Sparks! (Electricity)		In year 4, children will set up a simple electrical circuit. They will identify whether a lamp will light or a switch will open within a simple circuit. Children will recognise everyday appliances that require electricity and group conductors and insulators.		
Out of This World (space)			In year 5, children will describe the movement of earth, the planets and the moon. They will identify features of the sun, the moon and the earth and explain how rotation can explain day and night.	
Shocking Science (Electricity)				Children will discover how the change in brightness and volume

				can alter the number and voltage cells. They will compare and describe the function of various components in a circuit. They will recognise and actively use symbols in a circuit diagram.
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