

Science in Key Stage Two



'A brighter tomorrow'

Pupils will:	Develop their understanding of: plants, animals and humans and their classification; materials; movement including forces and magnets; the movement of the Earth and the moon in space; sight and hearing; electrical components in circuits. Develop their scientific knowledge and skills by working scientifically.
You will see them:	Look at the function of parts of flowering plants Look at changes in animals over time, adaptation and life cycles Look at the muscle and skeleton system of humans and animals. Look at the digestive system in humans. Look at classification of plants, animals and micro organisms using keys. Look at the effect of diet, exercise and drugs. Compare and group rocks and describe the formation of fossils. Look at solids, liquids and gases, changes of state, evaporation, condensation and the water cycle. Examine the properties of materials using various tests, including solubility. Examine irreversible changes to materials that create new materials. Explain how light appears to travel in straight lines and how this affects seeing and shadows. Look at sound sources, vibration, volume and pitch. Look at appliances, circuits, lamps, switches, insulators and conductors. Look at circuits, the effect of the voltage in cells and the resistance and conductivity of materials. Look at attraction and repulsion in magnets Look at the effect of gravity and friction. Look at the movement of the Earth and the Moon
Year 3 will learn through:	Exploring: the function of parts of flowering plants and parts of the human body, e.g. skeleton. Shadow formation. Properties of magnets.
Year 4 will learn through:	Investigating: the classification of living things. Changes of state. Relationship between vibrations and pitch in sound sources. Use of a switch in a simple series electrical circuit.
Year 5 will learn through:	Applying knowledge of: solids, liquids and gases to investigations involving separation and dissolving. The Earth's rotation to explain day and night and the apparent movement of the sun across the sky. Forces to identify the effects of air resistance, water resistance and friction.
Year 6 will learn through:	Identifying: the main parts of the human circulatory system. How animals and plants have adapted to suit their environment and how adaptation may lead to evolution. Applying: the idea that light travels in straight lines to explain how objects are seen and shadows are formed. Understanding of electrical circuits to compare and give reasons for variations in how components function.