

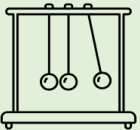



Science Subject Concepts:

Connecting to the 'bigger picture' through our key concepts

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|  | <h3>Scientific Enquiry</h3> | <p>By the time children finish Year 6, they will be able to develop the skills to plan, conduct, and review scientific investigations, using a range of tools and equipment to collect data. They will ask relevant questions, make predictions, and test hypotheses. Children will learn to observe and record results accurately, analyse data, and draw conclusions. They will also be able to understand and use scientific vocabulary to communicate their findings clearly.</p> |
|  | <h3>Biology</h3> | <p>By the time children finish Year 6, they will be able to explore the characteristics and life cycles of plants and animals, including the human body. They will learn about the different systems within the body (such as the digestive, circulatory, and respiratory systems) and how they work together. Children will also study ecosystems, the interdependence of living organisms, and how humans impact the environment, including conservation efforts and the importance of biodiversity.</p> |
|  | <h3>Chemistry</h3> | <p>By the time children finish Year 6, they will be able to investigate the properties and changes of materials, learning about the different states of matter (solids, liquids, and gases). They will explore reversible and irreversible changes, such as mixing, heating, and cooling, and understand basic concepts like solubility, acidity, and pH. Children will also learn how substances interact to form new materials.</p> |
|  | <h3>Physics</h3> | <p>By the time children finish Year 6, they will be able to explore forces and motion, learning about gravity, friction, and magnetic forces. They will investigate light and sound, understanding how they travel and interact with different materials. Children will also study energy, learning about electrical circuits, the conversion of energy, and the importance of renewable and non-renewable energy sources.</p> |
|  | <h3>Earth and Space</h3> | <p>By the time children finish Year 6, they will be able to develop an understanding of the Earth's place in the solar system, learning about the movements of the Earth, Moon, and planets. They will explore concepts such as day and night, seasons, and the phases of the Moon. Children will also learn about the Earth's structure, including the layers of the Earth, weather patterns, and the water cycle, and understand the importance of protecting natural resources.</p> |