Ramsbury Primary School

Science Curriculum Overview

EYFS

Reception
Explore the natural world around them, making observations and drawing pictures of **animals** and **plants**. Observe plants and animals growing and developing. Discuss things that are dead or alive and talk about fossils. Know some similarities and differences between the natural world around them and contrasting environment, 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.

Key Stage 1

Year 1	Year 2
Name some plants and identify basic structure. **Plants** need light and water to grow and survive. Know a variety of common **animals**. **Animals** have senses they respond to for survival. Identify the basic parts of a human body. Day length changes relative to the seasons. Compare, group and describe various **materials** based on their properties.	**Plants** need light, water and warmth to grow and survive and reproduce. We need **plants** to survive. **Animals** have offspring that grow into adults. Know the basic stages of a lifecycle. Living things are adapted to their habitats and obtain food via simple food chains. The effect of a push and a pull. **Materials** can be changed by physical force. Know the suitability of materials for their purpose.

Key Stage 2

Year 3	Year 4	Year 5	Year 6
Plants absorb sunlight and carbon dioxide. They are producers. **Animals** require nutrition and this, along with water and oxygen is transported around the body. Know the features of a magnet (poles, repulsion). Light comes from a source, can be reflected. Know how shadows are formed. Compare and group rocks and soils based on their properties. Know how fossils were formed.	Describe the simple functions of the digestive system including teeth. Identify producers (**plants**), predators and prey in a food chain. Explore and use classification keys to group and identify a variety of living things. Construct simple circuits with basic parts (including a switch) and recognise conductors and insulators. Sound travels to our ears from a source as a vibration of energy. Compare and group materials as solids, liquids and gases. Know how water can change state via evaporation and condensation.	Describe the changes as humans develop from birth to old age (including puberty). Know the process of reproduction in **plants** and animals. Life cycles of different living things. Understand the force of gravity, friction, air resistance and water resistance. Describe the movement of bodies in our solar system relative to the sun. Use knowledge of changing state to determine how mixtures may be separated. Know how some changes of state are reversible or not. Compare and group together everyday materials based on their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets.	The function of the circulatory system. Impact of diet, exercise, drugs and lifestyle on bodily function. Explain what evolution is and recognise how **animals** and **plants** adapt to suit their environment. Understand how natural selection enables species to survive change. Understand the role of fossils in understanding evolution Classify, with reason, living things into broad groups according to observable characteristics and based on similarities and differences. Use circuit symbols and understand variation in how components function (brightness of a bulb). Know the properties of light and how we see.