



Booker Avenue Junior School

Science

Long Term Overview

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	<p>Plants Parts of plants, needs of plants and their life cycle</p>	<p>Rocks Comparing different rocks, fossils, soil formation</p>	<p>Light Light sources, how light is reflected off objects, how shadows form, changing shadows, eye protection</p>	<p>Animals including humans Nutrition, muscular, skeletal system for support, movement and protection</p>	<p>Forces and magnets Non-contact forces, attraction and repulsion of magnets, magnetic materials and the N and S pole of magnets</p>	<p>Bee project A look at the relationship between bees and their environment; importance in pollination, food, light and earth's magnetic field</p>
Year 4	<p>States of matter/ solids, liquids and gases Group materials based on their properties, changes of state, heating and cooling, the water cycle.</p>	<p>Animals including humans Eating, teeth, digestive system and food chains, producers, predators and prey.</p>	<p>Sound Making sounds, vibrations, the ear, changes in pitch and volume</p>	<p>Living things and their habitats Classification, characteristics, and the effects of environmental changes</p>	<p>Electricity Appliances, building circuits and identifying components, circuit diagnostics, conductors and insulators</p>	<p>The History of Science Prehistoric times, science through different periods of history (Egyptians, Greeks and Romans), science in the Middle Ages, modern science</p>
Year 5	<p>Properties and changes of materials Classifying materials, dissolving, separating and changes of state, uses of materials, reversible and irreversible changes</p>	<p>Animals including humans Life cycles, plant and animal reproduction, human life cycle</p>	<p>Forces Gravity, air resistance, water resistance and friction between moving surfaces, multiplying forces using levers, pulleys and gears</p>	<p>Living things and their habitats Classifying living things, Life cycles of mammals, amphibians, insects and birds</p>	<p>Earth and space The movement of Earth, other planets and the Moon in relation to the Sun and each other, spherical bodies, night and day</p>	<p>The Scientific Method Steps to observations, comparative testing, identifying, grouping, classifying and pattern seeking.</p>
Year 6	<p>Animals including humans The circulatory system, lifestyle, health and disease; transport of water in animals</p>	<p>Light How light travels, how we see objects, the shape of shadows</p>	<p>Electricity The effects of changing the number and voltage of cells in a circuit; varying the function of components; representing circuits using symbols</p>	<p>Evolution and inheritance What we learn by looking at fossils; variation, reproduction and adaptation. Evolution</p>	<p>Living things and their habitats Classifying microorganisms, plants and animals</p>	<p>Preparing for Secondary Science Improving observations, acids and alkalis, separating colours, photosynthesis, sound and energy</p>