



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 (C1, C2, C3) Group materials based on their properties, changes of state, heating and cooling, the water cycle</p> | <p>Animals including humans (B3) Eating, teeth, digestive system and food chains, producers, predators and prey.</p> | <p>Sound (P1, P2) Making sounds, vibrations, the ear, changes in pitch and volume</p> | <p>Living things and their habitats (B1, B2) Classification, characteristics, and the effects of environmental changes</p> | <p>Electricity (P1, P2, C2) Appliances, building circuits and identifying components, circuit diagnostics, conductors and insulators</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> | |
| Year 6 | <p>Animals including humans (B1) The circulatory system, lifestyle, health and disease; transport of water in animals</p> | <p>Light (P1, P3) How light travels, how we see objects, the shape of shadows</p> | <p>Electricity (P1, P3) 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 (B3) What we learn by looking at fossils; variation, reproduction and adaptation. Evolution</p> | <p>Living things and their habitats (B2) Classifying microorganisms, plants and animals</p> | |