

Vernon Primary School Science Long Term Map



	Autumn	Spring	Summer
EYFS	Continuous Provision – sensory play, sand and water, Autumn walk (seasonal changes), floating and sinking, classifying food (healthy and unhealthy). Observing our own features (eye and hair colour).	Continuous Provision – sensory play, sand and water, Spring walk (seasonal changes), exploring magnets, classifying materials (objects made/not made of wood), changing states of matter (melting).	Continuous Provision – sensory play, sand and water, growing and planting, testing waterproof materials (skittles experiment).
Year 1	Plants: identify and name a variety of plants and trees. Describing the basic structure of flowering plants and trees. Seasonal Changes: observe and describe weather associated with the seasons and how day length varies.	Everyday Materials: describe and compare the simple physical properties of a variety of everyday materials based on their physical properties. Enquiry Unit – everyday materials	Animals including humans: identify, name and compare a variety of common animals including fish, amphibians, reptiles, birds and mammals. Enquiry Unit - animals including humans
Year 2	Uses of everyday materials: identify and compare the suitability of a variety of everyday materials. Finding out how the shapes of solid objects made from some materials, can be changed. Enquiry Unit - uses of everyday material.	Plants: observe and describe how seeds and bulbs grow into mature plants. Animals including humans: describe the basic needs of animals, including humans, for survival. Notice that animals, including humans, have offspring which grow into adults	Living things and their habitats: identify and name a variety of plants and animals in their habitats, including micro-habitats Enquiry Unit - Living things and their habitats
Year 3	Plants: investigate the way in which water is transported within plants. Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. Enquiry Unit – plants	Rocks: compare and group together different kinds of rocks on the basis of their properties. Describe in simple terms how fossils are formed Animals including humans: identify that humans and some other animals have skeletons and muscles for support, protection and movement.	Light: recognise that they need light in order to see things and that dark is the absence of light. Notice that light is reflected from surfaces and recognise how shadows are formed Forces & Magnets: compare how things move on different surfaces. Observe how magnets attract or repel each other and attract some materials and not others.
Year 4	States of Matter: compare and group materials together, according to whether they are solids, liquids or gases. Observe that some materials can change state. Enquiry Unit - states of Matter	Animals including humans: describe the simple functions of the basic parts of the digestive system in humans. Identifying the different types of teeth in humans and their simple functions. Living things and their habitats: recognise that environments can change and that this can sometimes pose dangers to living things.	Sound: identify how sounds are made, recognising that vibrations from sounds travel through a medium to the ear. Electricity: construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers.
Year 5	Animals including humans: describe the changes as humans develop to old age. Living things and their habitats: describe the life process of reproduction in some plants and animals.	Earth and Space: describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Forces: explain the force of gravity. Identify the effects of air resistance, water resistance and friction that act between moving surfaces.	Properties and changes of materials: use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating Enquiry Unit - properties and changes of materials
Year 6	Light: explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes Electricity: for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches	Living things and their habitats: describe how living things are classified based on similarities and differences, including micro- organisms, plants and animals. Evolution and inheritance: recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago	Animals including humans: identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood Enquiry Unit/PHS transition unit.
Curriculum Values			
Creativity & Curiosity	Independence	Respect & Cooperation	

'Nobody else is quite like me'