

Science Progression

Science

Year 3	
Autumn 1	Autumn 2
<p align="center">Rocks</p> <ul style="list-style-type: none"> • Compare and group together different kinds of rocks on the basis of their appearance and simple physical properties • Describe in simple terms how fossils are formed when things that have lived are trapped within rock <ul style="list-style-type: none"> • Recognise that soils are made from rocks and organic matter <p>Lesson 1: Describe how mountains are formed</p> <p>Lesson 2: Recognise the differences between igneous, sedimentary and metamorphic rock</p> <p>Lesson 3: Observe rocks including those used in buildings and gravestones</p> <p>Lesson 4: Classify different gravestone weathering</p> <p>Lesson 5: Understand what a fossil is</p> <p>Lesson 6: Describe what soils are made of</p> <p>Lesson 7: Identify common rocks</p>	<p align="center">Light</p> <ul style="list-style-type: none"> • Recognise that they need light in order to see things and that dark is the absence of light <ul style="list-style-type: none"> • Notice that light is reflected from surfaces. • Recognise that light from the sun can be dangerous and that there are ways to protect their eyes. • Recognise that shadows are formed when the light from a light source is blocked by a solid object. <ul style="list-style-type: none"> • Find patterns in the way that the size of shadows change. <p>Lesson 1: Explain how shadows are formed</p> <p>Lesson 2: Exploring light (dark is the absence of light and to recognise we need light in order to see things)</p> <p>Lesson 3: Understand different types of mirrors</p> <p>Lesson 4: Know what a periscope is and how it is used</p> <p>Lesson 5: Explain how reflective surfaces help to keep us safe (road safety)</p> <p>Lesson 6- Recognise that light from the sun can be dangerous and that there are ways to protect our eyes</p>

Year 3	
Spring 1	Spring 2
<p style="text-align: center;">Forces and Magnets</p> <ul style="list-style-type: none"> • <i>Compare how things move on different surfaces.</i> • <i>Notice that some forces need contact between two objects, but magnetic forces can act at a distance.</i> • <i>Observe how magnets attract or repel each other and attract some materials and not others.</i> • <i>Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet, and identify some magnetic materials.</i> <ul style="list-style-type: none"> • <i>Describe magnets as having two poles</i> • <i>Predict whether two magnets will attract or repel each other, depending on which poles are facing</i> <p>Lesson 1: To understand magnetism</p> <p>Lesson 2: Learn about different types of magnets</p> <p>Lesson 3: Know that the Earth behaves like a magnet</p> <p>Lesson 4: Learn about magnetic fields; learn about the law of magnetic attraction</p> <p>Lesson 5: Know that magnetic needles always point magnetic north</p> <p>Lesson 6: Compare how things move on different surfaces</p>	<p style="text-align: center;">Animals including Humans</p> <ul style="list-style-type: none"> • <i>Identify that animals, including humans, need the right types and amount of nutrition, and that they cannot make their own food; they get nutrition from what they eat.</i> • <i>Identify that humans and some other animals have skeletons and muscles for support, protection and movement.</i> <p>Lesson 1: Learn the importance of nutrition for humans</p> <p>Lesson 2: Learn about voluntary and involuntary muscles</p> <p>Lesson 3: Know how to keep healthy through diet</p> <p>Lesson 4: Introduction to the skeleton</p> <p>Lesson 5: Know about the skeleton (tendons and ligaments)</p> <p>Lesson 6- Explore how skeletons and muscles are used for support, protection and movement</p>

Year 3	
Summer 1	Summer 2
<p style="text-align: center;">The Life Cycle of Plants</p> <ul style="list-style-type: none"> • <i>Identify and describe the functions of different parts of the flowering plant: roots, stem, trunk, leaves and flowers.</i> • <i>Explore the part flowers play in a flowering plants life cycle including: pollination, seed formation and seed dispersal.</i> • <i>Explain the requirements of plants for life and growth (air, light, water, nutrients from soil, room to grow) and how they vary between plants</i> • <i>Know the way in which water is transported between plants</i> <p>Lesson 1: Name the parts of the flower and describe what they do</p> <p>Lesson 2: Explain how plants make their own food</p> <p>Lesson 3: Describe the life cycle of a plant</p> <p>Lesson 4: Describe the process of pollination</p> <p>Lesson 5: Describe how plants soak up water</p> <p>Lesson 6: Describe the different ways plants share their seeds</p>	<p style="text-align: center;">The World of Plants</p> <ul style="list-style-type: none"> • <i>Identify and describe the functions of different parts of the flowering plant: roots, stem, trunk, leaves and flowers.</i> • <i>Explore the part flowers play in a flowering plants life cycle including: pollination, seed formation and seed dispersal.</i> • <i>Explain the requirements of plants for life and growth (air, light, water, nutrients from soil, room to grow) and how they vary between plants</i> • <i>Know the way in which water is transported between plants</i> <p>Lesson 1: Describe the purpose of germination in seeds and bulbs</p> <p>Lesson 2: Describe how some plants reproduce asexually</p> <p>Lesson 3: Explain how water and food travel around a plant</p> <p>Lesson 4: Describe the features of non-vascular plants</p> <p>Lesson 5: Explore extraordinary plants and fungi</p> <p>Lesson 6: Explore the rainforest and its problems</p>