

● **Science: Year 3**

National Curriculum links:

- 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
- Recognise that soils are made from rocks and organic matter.
- 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
- identify that humans and some other animals have skeletons and muscles for support, protection and movement.
- 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
- 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 an opaque object
- Find patterns in the way that the size of shadows change.
- Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
- Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
- 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

Sequence of learning:

<u>Autumn</u>		<u>Spring</u>		<u>Summer</u>
<u>Rocks</u>	<u>Forces - Magnets</u>	<u>Animals including humans- skeletons and nutrition</u>	<u>Light</u>	<u>Plants</u>
Compare and group different kinds of rocks	Understand what a force is	Understand types of nutrition	Recognise that we need light in order to see	Know further parts of a plant
Identify properties of rocks	Compare how things move on different surfaces	Identify the right types of nutrition and where it comes from	Understand reflective surfaces	Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers
Understand how a fossil is formed	Notice that some forces need contact but some forces can act at a distance	Understand skeleton functions	Notice that light is reflected from surfaces	Understand what plants need to grow

Research different soil types	Describe magnets as having two poles	Label the human skeleton	Recognise that light from the sun can be dangerous and ways to protect our eyes from it	Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant
Investigate erosion	Predict whether two magnets will attract or repel	Classify animals based on skeleton type	Know how shadows are formed	Make observations on seeds planted in different conditions
	Compare and group a variety of everyday materials based on magnetism	Investigate muscles	Find patterns in the way that the size of shadows change	Investigate the way in which water is transported within plants
				Explore the part of the flower in the life cycle of a flowering plant
				Understand pollination
				Research seed formation and seed dispersal.

Key vocabulary:

Force	Magnet	Attract and Repel	Magnetic material
Light	Dark	Shadow	Reflect
Photosynthesis	Seed dispersal	Pollination	Fruit
Rock	Stone	Fossil	Nutrient
Vitamin	Skeleton	Muscle	Joint