

• To compare and group together different kinds

simple physical properties.

of rocks on the basis of their appearance and

## **Science Overview**

## **Cathcart Street Primary School 2023-2024**

	Autumn	Spring	Summer		
	Year 3 NC Objectives	Year 3 NC Objectives	Year 3 NC Objectives		
	Pupils should be taught to:	Forces and Magnets Pupils should be taught to:	Animals including Humans – Movement and Nutrition  • identify that humans and some other animals have skeletons and muscles for support, protection and movement • 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  NB: Make link between PSHE  Light Pupils should be taught to: • 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		
	<ul> <li>Ongoing Plants</li> <li>identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</li> <li>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</li> <li>investigate the way in which water is transported within plants</li> <li>explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li> </ul>				
H	Year 3	Year 3	Year 3		

(Prior Learning from KS1: Know how the shapes of

solid objects made from some materials can be

changed by squashing, bending, twisting and

stretching)

Movement

To be able to name some bones that make up

their skeleton giving examples that support,

help them move or provide protection.

	To lineau that calls are made up of sizes of	To compare how this so weave an different events are		
	<ul> <li>To know that soils are made up of pieces of ground- down rock which may be mixed with plant and animal material (organic matter).</li> <li>To know that some rocks contain fossils which were formed millions of years ago.</li> <li>To describe in simple terms how fossils are formed when things that have lived are trapped within rock.</li> </ul>	<ul> <li>To compare how things move on different surfaces.</li> <li>To be able to explain how the texture of a surface affects the movement of an object - friction.</li> <li>To be able to identify forces that need contact and know that magnetic forces can act at a distance.</li> <li>Plants         <ul> <li>identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</li> <li>explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</li> </ul> </li> </ul>	To be able to describe how muscles and joints help them to move.  Light: (Prior Learning from KS1: identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense-Know that the eyes are associated with sight)	
Working Scientifically	To make careful observations of rocks using hand lenses/ microscope to classify them.  Plants:     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	To observe how magnets attract or repel each other and attract some materials and not others.     To select from a range of resources to gather evidence to answer questions     To use their evidence to suggest values for different items tested using the same method	Animals inc Humans  To interpret their date to generate simple comparative statements based on their evidence.  To interpret their date to generate simple comparative statements based on their evidence.  Light  To make simple predictions based on prior scientific knowledge.  To find patterns in the way that the size of shadows change.	
Vocabulary	Key vocabulary (Rocks) fossil, permeable, impermeable, durable, igneous, sedimentary, metamorphic, sediment, organic matter  Key Vocabulary (Plants)	Key Vocabulary (Forces and Magnets)  Magnetic, force, attract, repel, magnetic field poles, north pole, south pole, friction,	Key Vocabulary (Animals inc Humans) Nutrition, fibre, calcium, iron, Skeleton endoskeleton, exoskeleton, muscle, contract, relax  Key Vocabulary (Animals inc Humans) Nutrition, fibre, calcium, iron, Key Vocabulary (Light) light source, Reflection, transparent, translucent, opaque,	
Š	photosynthesis, reproduction, transportation, seed dispersal, pollination, germination,			