Year Group	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
УЗ	Rocks	Light	Forces and Magnets	Animals, including humans (Nutrition + Skeleton)	Plants	Plants
Topic Take Aways	I can describe sedimentary and igneous rocks and explain the difference.	I know dark is the absence of light. I know I need light to see.	I know that a force is a push or a pull. I know that magnetic	I know that a balanced diet means eating food from different food groups.	I know the function of roots, stem, leaves, and flowers. I know that plants need water, light, and nutrients from the soil, air and space to grow. I know that different plants need different amounts of these - for example a cactus needs little water. I know water is absorbed by the neets, travels on the stem and	
	I can describe how soil is made from a mixture of water, air, minerals and organic matter.	I know light can be reflected from a surface.	forces can act at a distance. I know that magnets can attract or repel	I know animals need water, food and air to stay healthy and these are		
	I can describe how fossils are formed over a long period of time. I can compare and group rocks	I can explain how a shadow is formed and how I can change the shadow size. I can explain	I can sort materials on the basis of whether they are attracted to a magnet.	transported through the body. I know that humans and some animals have a	evaporates from the leaves, causing more water to be absorbed. I know the lifecycle of a plant and that the flower's purpose is to create seeds which are then dispersed and begin to grow into a new plant.	

	appearance and physical properties. I can explain my reasons for grouping the rocks.	direct sunlight and how to protect myself.	I know a magnet has 2 poles. I can predict whether magnets will attract or repel each other, depending on which poles are facing.	can describe it. I know that humans have muscles which work in pairs to move the bones. I know the purpose of the skeleton is to protect organs allow		
Working Scientifically	I can explain my own ideas and explore different types of scientific enquiry to explore them. Can I plan how to observe and	Can I plan a fair test and explain why it was fair? Can I take accurate measurements using different	Can I plan how to observe and decide if I need to take measurements? Can I explain what I have found and use	Support the body. Can they describe what they have found using scientific language? Can I make	Can I plan a fair test and explain why it was fair? Can I record observations in different ways? - Labelled	Can I discuss differences, similarities or changes related to simple scientific ideas? Can I make links between my results
	decide if I need to take measurements?	equipment and units of measure?	their measurements to say whether	links between my results and other	diagrams, charts etc.	and other scientific evidence?

			it helps to answer the	scientific evidence?		
			question?			
Science	<u>Can I group rocks</u>	<u>Can I find out</u>	<u>Can I plan an</u>	<u>Can I explore</u>	<u>Can I plan and</u>	<u>Can I investigate</u>
Investigation	according to their	if the position	investigation to	why bones are	<u>set up an</u>	<u>how plants get</u>
	<u>physical</u>	<u>of the light</u>	<u>explore the</u>	important?	<u>investigation to</u>	<u>water?</u>
	properties?	<u>source affects</u>	<u>strength of</u>		<u>see what plants</u>	
	Children work as	<u>the size of</u>	<u>different</u>	Use a thin	<u>need to grow</u>	Cover a branch with
	geologists to test	the shadow?	<u>magnets?</u>	rubber glove to	<u>well.</u>	a clear, sealed
	the rocks. Which	How could we	Which magnets	represent a	Growing plants	plastic bag. Leave
	would be best for	test this? Let	are the	human hand.	from seed.	for a week, children
	each purpose?	the children	strongest? How	Observe how it	Children decide	will observe it now
	(Water + pipettes	share some	can we compare	is floppy	about what they	looks misty and
	for permeable,	ideas. Then	them? What	without bones.	will do to carry	contains water.
	tanks with water	explain how we	could we do to	Use straws to	out their	Where did it come
	for buoyancy,	will be carrying	test? How could	represent	investigation and	from?
	sandpaper / nails	out	we make sure it	bones and how	how they are	
	for durability)	investigation	was a fair test?	it is now	going to be sure	Look at the
	Record answers in	and what the		supported.	that all the other	movement of
	table.	children will	Plan and carry	How else do	factors stay the	coloured water in a
		need to do.	out experiment	bones help?	same. Discuss the	vase of white
		Children to	using paperclips		importance of a	flowers or celery.
		complete the	and magnets.		fair test and how	
		experiment			we will have a	
		planning sheet			control variable	
		thinking about			that we will make	
		each stage.			sure has all of	
		Make sure we			the elements so	
		consider what			that we can	
		will make it a			compare the	
		fair test.			results to this.	

Using torches	Use a planning
and toy	sheet for them
figures	to think through
children carry	each stage.
out	Question
investigation to	prediction and
see how the	why, method, how
distance of the	we will measure?
light source	Take
from the	measurement of
object affects	plant so we can
the size of the	compare at end.
shadow. Talk	Children then
the children	work in pairs to
through the	set up their
stages and	investigation.
model what the	Give them a
set up should	healthy plant.
look like.	Have several
Children record	different types
results in table	of plant so we
and then draw	can compare at
their own	the end of the
conclusions	experiment if all
about how the	plants need the
distance	same amount of
affects the	the elements to
shadow size.	survive?
	Look at plants
	every few days
	and take
	observations and

					measurements. At the end of the experiment children draw conclusions about what they found out and see if their prediction was correct.	
Vocabulary	permeable, impermeable, durable, buoyancy, fossils, soils, sandstone, granite, marble, pumice, crystals, absorbent	light, shadows, mirror, reflective, dark, reflection	magnetic, force, contact, attract, repel, friction, poles, push, pull	movement, muscles, bones, skull, nutrition, skeletons	air, light, water, nutrients, soil, reproduction, transportation, dispersal, pollination, flower	air, light, water, nutrients, soil, reproduction, transportation, dispersal, pollination, flower