Alimary solo						
Unit	Animals including humans What makes us	Plants Lifecycles Exploring the world of plants	Rocks	Light	Forces	Scientific enquiry
Substantive Knowledge	 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 	 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 	 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 Explore how and why [rocks] might have changed over time (non-statutory) 	 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 	 Compare how things move on different surfaces Notice that some forces need contact between 2 objects, but magnetic forces can act at a distance Observe how magnets attract or repel each other and attract some materials and not others 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 Describe magnets as having 2 poles Predict whether 2 magnets will attract or repel 	 Asking relevant questions and using different types of scientific enquiries to answer them Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Setting up simple practical enquiries, comparative and fair tests Identifying differences, similarities or changes related to simple scientific ideas and processes Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Using straightforward scientific evidence to answer questions or to

	each other, depending on which poles are facing	 support their findings Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables
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Disciplinary knowledgeAsk relevant questions and using different types of scientific enquiries to answer them• Set up simple practical enquiries, comparative and fair tests• Make systematic and careful	 Ask relevant questions and using different types of scientific enquiries to answer them Set up simple practical enquiries, comparative and fair tests Making systematic and careful observations Reporting on findings from enquiries, including oral and written explanations 	 Set up simple practical enquiries, comparative and fair tests Gather, record, classify and present data in a variety of ways to help in answering questions Record findings using simple scientific 	 Set up simple practical enquiries, comparative and fair tests Gather, record, classify and present data in a variety of ways to help in answering questions Record findings using simple scientific 	 Set up simple practical enquiries, comparative and fair tests Make systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers 	 Asking relevant questions and using different types of scientific enquiries to answer them Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Gathering, recording, classifying and presenting data in a variety of ways to help in answering
and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions	 recording, classifying and presenting data in a variety of ways to help in answering questions Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions 	 language, drawings, labelled diagrams, keys, bar charts, and tables Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Making systematic and careful observations and, where appropriate, taking accurate measurements using standard 	 language, drawings, labelled diagrams, keys, bar charts, and tables Use straightforward scientific evidence to answer questions or to support their findings Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions 	 Gather, record, classify and present data in a variety of ways to help in answering questions Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions Identify differences, similarities or changes related to simple scientific ideas and processes Use straightforward scientific evidence to answer questions or to support their findings 	 questions Identifying differences, similarities or changes related to simple scientific ideas and processes Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions Setting up simple practical enquiries, comparative and fair tests Using straightforward scientific evidence to answer questions or to support their findings Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions

Key Vocab						
	Animals including	Plants	Rocks	Light	Forces and magnets	Scientific Enquiry
	humans – what					
	makes us?	nutrients	igneous rocks	light source	force contact	solar
		fertiliser	intrusive	natural	force non-contact	renewable energy
	nutrition	nursery	igneous rock	artificial	forces	scientific investigation
	carbohydrate	potassium	extrusive	reflect	air resistance	prediction
	protein	stunted	crystals	vitamin D	friction	plausible
	vitamin	chlorophyl	magma	ultraviolet rays	motion	record results
	mineral	stomata	sedimentary rock	sunburn	surface	data
	nutrition	xylem	metamorphic rock	exposure	resistance	table
	label	photosynthesis	limestone	protection	texture	graph
	portion	UV light	marble	fluorescent	tilt	acid
	energy	xylem	sandstone	high visibility	magnet	alkali
	balanced diet	phloem	weathering chemical	reflective	attract	PH
	vertebrate	absorb	weathering physical	surface materials	repel	method
	invertebrate	stomata	weathering	shadow	bar magnet	practical
	endoskeleton	transpiration	biological	opaque	horseshoe magnet	conclusion
	exoskeleton	anther	weathering	sundial	magnetism	evidence
	hydrostatic	stigma	acid rain	rays	magnetic	explanation
	skeleton	style	appearance texture	blocks	magnetic field	compare
	humerus	filament	submerged	position	iron steel	enquiry
	ulna	reproduction	erosion receding	cast	attract	baking
	radius	pollination	fossil	opposite	non-magnetic materials	measurements
	tibia	pollen	extinct	direction	recycle	fair test
	fibular	nectar	sediment	length	compass	control
	endoskeleton	seed	embedded amber	size	magnetic needle	experiment
	vertebrate	dispersal	decompose	shape	magnetic north	conclusive
	skull	pollinator	fragments	closer	direction	scientific knowledge
	rib cage	germination	clay	further	orienteering	equipment
	spine	vulnerable	soil	puppet		diagram
	muscle	anchor	chalky			collated
	contract	sapling				variable
	hamstrings	formation				
	biceps					
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