

	Working Scientifically	Changing Materials
Years 1-2	Can ask simple questions.	Knows what an object is called and what it is made from.
	Can ask simple questions and recognising that they can be answered in different ways.	Can name a variety of different materials (including wood, plastic, glass, metal, water and rock).
	Can observe closely, using simple equipment.	Can describe the properties of some materials.
	Can perform simple tests.	Can compare and group different materials based on their properties.
	Can identify and classify phenomena.	Can compare whether a material is suitable for a job.
	Can use their observations and ideas to suggest answers to questions.	Can identify whether a material is suitable for a job.
	Can gather data to help in answering questions.	Can list a variety of uses for a given material e.g. metal – coins, spoons, cans, cars.
	Can record data to help in answering questions.	Can explain why an object can be made from different material e.g. a spoon can be wooden or metal.
	Can identify patterns in their observations.	Can explain how some materials can be changed.
	Can suggest ways to improve a scientific investigation.	
	Can explain their ideas using scientific vocabulary correctly.	
	Working Scientifically	Our Living Earth
Years 1-2	Can ask simple questions.	Can explain why an object can be made from different material e.g. a spoon can be wooden or metal.
	Can ask simple questions and recognising that they can be answered in different ways.	Can identify and name some common carnivores, herbivores and omnivores.
	Can observe closely, using simple equipment.	Can describe the bodies of common animals including fish, amphibians, reptiles, birds and mammals.
	Can perform simple tests.	Can compare the bodies of common animals including fish, amphibians, reptiles, birds and mammals
	Can identify and classify phenomena.	Know that animals, including humans have offspring which grow into adults.
	Can use their observations and ideas to suggest answers to questions.	Can identify, name, draw and label basic parts of the human body.
	Can gather data to help in answering questions.	Can recognise some of the signs of growth (e.g. egg, chick, chicken, egg or baby, toddler, child, teenag
	Can record data to help in answering questions.	Can describe the importance of exercise for humans.
	Can identify patterns in their observations.	Can describe the importance of eating the correct types of food
	Can suggest ways to improve a scientific investigation.	Can describe the importance of hygiene.
	Can explain their ideas using scientific vocabulary correctly.	Can explore the differences between things that are living, dead and things that have never been alive
		Can compare the differences between things that are living, dead and things that have never been alive
		Know some of the process of growth in humans and animals.
	Working Scientifically	Habitats & Seasonal Change
	Can ask simple questions.	Can observe changes across the four seasons.
	Can ask simple questions and recognising that they can be answered in different ways.	Can observe weather associated with the seasons and how day length changes.
	Can observe closely, using simple equipment.	Can describe weather associated with the seasons and how day length changes.
	Can perform simple tests.	Know that it is not safe to look at the Sun, even when wearing sun glasses.
	Can identify and classify phenomena.	Can talk about changes in the weather.
	Can use their observations and ideas to suggest answers to questions.	Can talk about changes in the seasons.
Ņ	Can gather data to help in answering questions.	Can identify that living things live in habitats to which they are suited.
- -	Can record data to help in answering questions.	Can describe how different habitats provide for the basic needs of different kinds of plants and animals.
earg	Can identify patterns in their observations.	Can describe how plants and animals within a habitat depend on each other.
×	Can suggest ways to improve a scientific investigation.	Can identify and name plants and animals within a habitat (including microhabitats e.g. woodlice under
	Can explain their ideas using scientific vocabulary correctly.	Can describe how an animal gets their food from plants and other animals.
		Can use a food chain.
		Can identify and name different sources of food.
		Understands the term 'habitat'.
		Understands the term 'micro-habitat'
		Can compare animals that live in different habitats.

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	Working Scientifically	Geology, Mixtures & Separation
Year 3-6	Can take accurate measurement using standard units.	Can compare different rocks based on their appearance and their physical properties.
	Can gather data to answer a question.	Can group different rocks based on their appearance and their physical properties.
	Can record data to answer a question.	Can use a microscope to identify and classify rocks according to whether they are made of grains or crystals.
	Can report findings using simple scientific language.	Can describe how fossils are formed.
	Can report findings using drawings.	Can recognise that soils are made from rocks and organic matter.
	Can report findings using labelled diagrams.	Can explore different soils and identify similarities and differences between them.
	Can report findings using a table.	Can use my knowledge of solids, liquids and gases to decide how to separate a mixture (including filtering, sieving a
	Can use results to draw a simple conclusion.	Can demonstrate that dissolving is reversible.
	Can take accurate and precise measurements using scientific equipment.	Can demonstrate that mixing is reversible.
	Can take repeat measurements where appropriate.	Can demonstrate that changes of state are reversible.
	Can record data and results using diagrams with labels.	Can explain that some changes result in the formation of a new material and that this kind of change is usually irrev
	Can record data and results using tables.	
	Can record data and results using bar and line graphs.	
	Working Scientifically	Electricity
	Can ask relevant questions.	Can identify common appliances that run on electricity.
	Can conduct a scientific enquiry to answer my own questions.	Can name basic electrical components – cells, wires, bulbs, switches and buzzers.
	Can set up a simple scientific enquiry.	Recognises that a switch can be open or closed.
Years 3-6	Can make careful observations.	Can identify whether or not a lamp will light, based on whether or not the lamp is part of a complete loop with a cell.
	Can take accurate measurement using standard units of measure.	Knows that a switch can control whether a lamp will light in a simple series circuit.
	Can plan different types of scientific enquiries to answer questions.	Recognises some common conductors.
	Can recognise and control variables.	Recognises some common insulators.
	Can take accurate and precise measurements using scientific equipment.	Knows that metals are good conductors.
	Can take repeat measurements where appropriate.	Can draw a circuit using conventional circuit symbols.
		Can associate the brightness of a lamp and the volume of a buzzer with the voltage of cell used.
		Can associate the brightness of a lamp and the volume of a buzzer with the number of cells used.
		Can compare variations in how components function (brightness of bulbs, loudness of buzzers, on/off position of sw
		Can give reasons for variations in how components function (brightness of bulbs, loudness of buzzers, on/off position
		Can use recognised symbols when representing a simple circuit on a diagram.
		Knows what precautions to take to work safely with electricity.
	Working Scientifically	Environment, Ecology and Evolution
	Can use results to draw a simple conclusion.	Knows that animals need the right types and amounts of nutrition.
Years 3-6	Can use results to make a prediction for further values.	Knows that animals cannot make their own food.
	Can identify difference, similarities and changes related to simple scientific ideas.	Can explore and use classification keys to group living things in the wider environment.
	Can use test results to make further predictions which will feed into further	Can explore and use classification keys to identify and name living things in their local environment.
	comparative and fair tests.	Knows that environments can change and that this can pose dangers to living things.
	Can report findings from an enquiry both orally and in writing.	Knows that living things have changed over time.
	Can make a conclusion based on a test.	Knows that fossils provide information about living things that inhabited the Earth millions of years ago.
	Can explain results from an enquiry.	Knows that living things produce offspring, but normally offspring are not identical to their parents.
	Can identify a degree of trust within an enquiry.	Knows that animals are adapted to suit their environment in different ways.
	Can suggest improvements to be made to an investigation.	Knows that adaptation can lead to evolution.
		Can describe the difference in the life cycles of mammals, amphibians, insects and birds.
		Can describe the life process of reproduction in some animals.

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