

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	Ask simple questions and recognise they can be answered in different ways. Begin to observe more closely using simple equipment such asa magnifying glass. Begin to form simple tests. Begin to identify and classify Begin to use their observation and ideas to suggest answers toquestions Begin to gather and record simple data to help in answering questions.	Ask simple questions and recognise they can be answered in different ways. Observe closely using simpleequipment. Perform simple testsIdentify and classify Use observations and ideas to suggest answers to questions Gather and record data to help in answering questions.	Begin to use results to draw simple conclusions, make prediction for new values, suggest improvements and raisefurther questions. Begin to identify differences, similarities or changes related to simple scientific ideas and processes. Begin to use straightforward scientific evidence to answer questions or support their findings. Begin to report on findings fromenquiries, including oral and written explanations, displays or presentations of results from conclusions. Begin to gather, record, classifyand present data in a variety ofways to help in answering questions. Begin to record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. Begin to set up simple practicalenquiries, comparative and fairtests. Begin to make systematic and careful observations and, whereappropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Begin to ask relevant questions and using different types of scientific enquiries to answer them.	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. Report on findings from enquiries, including oral and written explanations, displays orpresentations of results and conclusions. Gather, record, classify and present data in a variety of ways to help in answering questions. Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. Set up simple practical enquiries, comparative and fairtests. Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. Ask relevant questions and use different types of scientific enquiries to answer them.	Begin to identify scientific evidence that has been used to support or refute ideas or arguments. Begin to plan different types of scientific enquiries to answer questions, including recognising and controlling variables wherenecessary. Begin to take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. Begin to record data and resultsof using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. Begin to use test results to make predictions to set up further comparative and fair tests. Begin to report and represent findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.	Identify scientific evidence thathas been used to support or refute ideas or arguments. Plan different types of scientificenquiries to answer questions, including recognising and controlling variables where necessary. Take measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate. Record data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs. Use test results to make predictions to set up further comparative and fair tests. Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms such as displays and other presentations.



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Units	Plants (KS1 Summer 1Year A)	Plants (KS1 Summer 1 Year A)	Plants(KS2 Summer 1 Year A)			
Plants	Identify and name a variety of common wild and garden plants, including deciduous andevergreen trees. Name petals, stem, leaf, bulb, flower, seed, stem and root of a plant. Name trunk, branches and root of a tree. Describe the parts of a plant (root stem)	Observe and describe how seeds and bulbs grow into mature plants. Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.	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.			
Units	Seasonal and weather (KS1 Spring 1Year A)					
Seasonal Changes	Observe changes across thefour seasons. Name the 4 seasons in order Observe and describe weatherassociated with the seasons and how day length varies					
Units						Humans and Animals overtime (KS2 Sering 2 Year D)
Evolution						Recognise that living things have changed over time and that fossils provide informationabout living things that inhabited the Earth millions of years ago. Recognise that living things produce offspring of the samekind, but normally offspring vary and are not identical to their parents.



	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Units	Animal Kingdom (KS1 Summer 2 Year A)	Human Lifestyle (KS1 Autumn 2 Year B)	Ecosystems (KS2 Spring 1 Year B)	Anatomy (KS2 Spring 2 Year A)	Humans and Animals overtime (KS2 Summer 2 Year D)	Diet and Lifestyle (KS2 Summer 2 Year B) Cells KS2 Summer 1 Year D)
Animals	Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of common animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds andmammals, including pets). Identify, name, draw and labelthe basic parts of the human body and say which part of the body is associated with each sense.	Notice that animals, including humans, have offspring which grow into adults. Find out about and describe the basic needs of animals, including humans, for survival (water, food and air). Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.	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.	Describe the simple functions of the basic parts of the digestive system in humans. Identify the different types of teeth in humans and their simple functions. Construct and interpret a variety of food chains, identifying producers, predators and prey.	Describe the changes as humans develop to old age.	Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood. Recognise the impact of diet, exercise, drugs and lifestyle onthe way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.
Units		Habitats (KS1 Summer 1 Year B)		Adaptation (KS2 Spring 2 Year C)	Reproductive cycles (KS2 Summer 2 Year C)	Reproductive cycles (KS2 Summer 2 Year C)
Living things and their Habitats		Explore and compare the differences between things that are living, dead, and things that have never been alive. Identify that most living things live in habitats to which they are suited and describe how different habitats provide for the basic needs of different kinds of animals and plants, and how they depend on each other. Identify and name a variety of plants and animals in their habitats, including micro- habitats.		Recognise that living things can be grouped in a variety of ways.Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment. Recognise that environments can change and that this can sometimes pose dangers to living things.	Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird.Describe the life process of reproduction in some plants and animals.	Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences, including micro- organisms, plants and animals.Give reasons for classifying plants and animals based on specific characteristics.



		Describe how animals obtaintheir food from plants and animals, using the ideaof a food chain.				
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Units	Materials KS1 Autumn 1 Year A)	Building things (KS1Spring 2 Year A) Changing Materials (KS1 Spring 1 Year B)	Rock Cycle (KS2 Autumn 2 Year D)	Mixing and Making (KS1 Summer 2 Year B) Phases of Matter (KS2 Autumn 1 Year B)	Raw and Synthetic Materials (KS2 Autumn 2 Year C) Separating mixtures (KS2 Autumn 1Year C) Physical and Chemical Changes (KS2 Autumn 2 Year A) Heat (Y5 Spring 1 Year C)	
Materials	EVERYDAY MATERIALS Distinguish between an object and the material from which it is made. Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock. Describe the simple physical properties of a variety of everyday materials. Compare and group together a variety of everyday materials on the basis of their simple physical properties.	EVERYDAY MATERIALS Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses. Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	ROCKS 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 thingsthat have lived are trapped within rock. Recognise that soils are made from rocks and organic matter.	STATES OF MATTER Compare and group materials together, according to whether they are solids, liquids or gases. Observe that some materials change state when they are heated or cooled, and measured Research the temperature at which this happens in degrees Celsius (°C). Identify the part played by evaporation and condensation in the water cycle and associatethe rate of evaporation with temperature.	PROPERTIES OF MATERIALS Compare and group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets. Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating. Give reasons, based on evidence from comparative andfair tests, for the particular uses of everyday materials, includingmetals, wood and plastic. Demonstrate that dissolving, mixing and changes of state are reversible changes. Explain that some changes result in the formation of new materials, and that this kind of change is not usually reversible, including changes	



					associated with burning and the action of acid on bicarbonate of soda.	
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Units			Light (KS1 Autumn 1 Year B) Light (KS2 Summer 2 Year A)	Sound (KS1Spring 1 Year A) Sound (KS2 Spring 1 Year A)		(Light KS2 Summer 2 Year A)
Light and Sound			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 a solidobject. Find patterns in the way that the size of shadows change	Identify how sounds are made, associating some of them withsomething vibrating. Recognise that vibrations from sounds travel through a medium to the ear. Find patterns between the pitchof a sound and features of the object that produced it. Find patterns between the volume of a sound and the strength of the vibrations that produced it. Recognise that sounds get fainter as the distance from the sound source increases.		Recognise that light appears totravel in straight lines. Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye. Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes. Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.
Units			Magnetism (KS2 Spring 1 Year D))		Forces (KS2 Summer 1 Year C)	
Force			Compare how things move ondifferent surfaces. Notice that some forces need contact between two objects, but magnetic forces can act at a distance. Observe how magnets attract orrepel 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		Explain that unsupported objects fall towards the Earth because of the force of gravityacting between the Earth and the falling object. Identify the effects of air resistance, water resistance and friction, that act between moving surfaces. Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.	



the Moon relative to the

Describe The Sun, Earth and Moon asapproximately spherical bodies. Use the idea of the Earth's rotation to explainday and

Earth

					MULTI	ACADEMY TRUST
			twopoles. Predict whether two magnets will attract or repel each other, depending on which poles.			
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Units				Electrical Circuits (KS2 Summer 1 Year B)	Tear 5	Electrical Circuits (KS2 Summer Year B)
Electricity				Identify common appliances that run on electricity. Construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers. Identify whether or not a lamp will light in a simple series circuit, based on whether or not the lamp is part of a complete loop with a battery. Recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit. Recognise some common conductors and insulators, and associate metals with being good conductors		Associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit. Compare and give reasons fo variations in how component function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing asimple circuit in a diagram.
Units					Space (KS1 Spring 2 Year B) Space (KS2 Spring 2 Year B)	
Earth And Space					Describe the movement of the Earth, and other planets, relative to the Sun in the solar system. Describe the movement of	

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				night and the apparent movement of the sun across the sky.