

Science Skills Progression - KS2 2022-23



Pupils will be given opportunities to carry out a range of **practical enquiries**, fair tests, observations and will take measurements to inform reports, drawings and diagrams. They will record and classify data in a variety of ways through working scientifically. Pupils will be taught about animals, humans and living things, including their nutrition needs, systems and functions. They will also have knowledge of materials and their uses, including chemical changes and composition. Pupils will also be taught about a range of physics, including forces, planets and energy.

BIOLOGY	Year 3	Year 4	Year 5	Year 6
Animals and Humans	<p>Sc3/2.2a 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</p> <p>Sc3/2.2b identify that humans and some other animals have skeletons and muscles for support, protection and movement.</p>	<p>Sc4/2.2a describe the simple functions of the basic parts of the digestive system in humans</p> <p>Sc4/2.2b identify the different types of teeth in humans and their simple functions</p> <p>Sc4/2.2c construct and interpret a variety of food chains, identifying producers, predators and prey.</p>	<p>Sc5/2.2a describe the changes as humans develop to old age.</p>	<p>Sc6/2.2a identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood</p> <p>Sc6/2.2b recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function</p> <p>Sc6/2.2c describe the ways in which nutrients and water are transported within animals, including humans.</p>
Living things		<p>Sc4/2.1a recognise that living things can be grouped in a variety of ways</p> <p>Sc4/2.1b explore and use classification keys to help</p>	<p>Sc5/2.1a describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</p> <p>Sc5/2.1b describe the life</p>	<p>Sc6/2.1a describe how living things are classified into broad groups according to common observable characteristics and based on similarities and</p>

		<p>group, identify and name a variety of living things in their local and wider environment</p> <p>Sc4/2.1c recognise that environments can change and that this can sometimes pose dangers to living things.</p>	<p>process of reproduction in some plants and animals.</p>	<p>differences, including micro-organisms, plants and animals</p> <p>Sc6/2.1b give reasons for classifying plants and animals based on specific characteristics.</p>
Plants	<p>Sc3/2.1a identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p> <p>Sc3/2.1b 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</p> <p>Sc3/2.1c investigate the way in which water is transported within plants</p> <p>Sc3/2.1d explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p>			

Evolution				<p>Sc6/2.3a recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago</p> <p>Sc6/3.2b recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents</p> <p>Sc6/2.3c identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution</p>

CHEMISTRY	Year 3	Year 4	Year 5	Year 6
Materials and changes of state.		<p>Sc4/3.1a compare and group materials together, according to whether they are solids, liquids or gases</p> <p>Sc4/3.1b observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius ($^{\circ}\text{C}$)</p> <p>Sc4/3.1c identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</p>	<p>Sc5/3.1a 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</p> <p>Sc5/3.1b know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution</p> <p>Sc5/3.1c use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating</p> <p>Sc5/3.1d give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic</p>	

			<p>Sc5/3.1e demonstrate that dissolving, mixing and changes of state are reversible changes</p> <p>Sc5/3.1f 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.</p>	
<p>Rocks and Soils</p>	<p>Sc3/3.1a compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</p> <p>Sc3/3.1b describe in simple terms how fossils are formed when things that have lived are trapped within rock</p> <p>Sc3/3.1c recognise that soils are made from rocks and organic matter.</p>			

PHYSICS	Year 3	Year 4	Year 5	Year 6
Earth and Space			<p>Sc5/4.1a describe the movement of the Earth, and other planets, relative to the Sun in the solar system</p> <p>Sc5/4.1b describe the movement of the Moon relative to the Earth</p> <p>Sc5/4.1c describe the Sun, Earth and Moon as approximately spherical bodies</p> <p>Sc5/4.1d use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky.</p>	
Electricity		<p>Sc4/4.2a identify common appliances that run on electricity</p> <p>Sc4/4.2b construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</p>		<p>Sc6/4.2a associate the brightness of a lamp or the volume of a buzzer with the number and voltage of cells used in the circuit</p> <p>Sc6/4.2b compare and give reasons for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches</p>

		<p>Sc4/4.2c 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</p> <p>Sc4/4.2d recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</p> <p>Sc4/4.2e recognise some common conductors and insulators, and associate metals with being good conductors.</p>		<p>Sc6/4.2c use recognised symbols when representing a simple circuit in a diagram.</p>
Light	<p>Sc3/4.1a recognise that they need light in order to see things and that dark is the absence of light</p> <p>Sc3/4.1b notice that light is reflected from surfaces</p> <p>Sc3/4.1c recognise that light from the sun can be dangerous and that there are ways to protect their eyes</p> <p>Sc3/4.1d recognise that shadows are formed when the light from a light source is blocked by a solid object</p>			<p>Sc6/4.1a recognise that light appears to travel in straight lines</p> <p>Sc6/4.1b 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</p> <p>Sc6/4.1c 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</p> <p>Sc6/4.1d use the idea that light travels in straight lines to explain why shadows have the</p>

	<p>Sc3/4.1e find patterns in the way that the size of shadows change.</p>			<p>same shape as the objects that cast them</p>
<p>Forces</p>	<p>Sc3/4.2a compare how things move on different surfaces</p> <p>Sc3/4.2b notice that some forces need contact between 2 objects, but magnetic forces can act at a distance</p> <p>Sc3/4.2c observe how magnets attract or repel each other and attract some materials and not others</p> <p>Sc3/4.2d 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</p> <p>Sc3/4.2e describe magnets as having 2 poles</p>		<p>Sc5/4.2a explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object</p> <p>Sc5/4.2b identify the effects of air resistance, water resistance and friction, that act between moving surfaces</p> <p>Sc5/4.2c recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect</p>	

	Sc3/4.2f predict whether 2 magnets will attract or repel each other, depending on which poles are facing.			
Sound		<p>Sc4/4.1a identify how sounds are made, associating some of them with something vibrating</p> <p>Sc4/4.1b recognise that vibrations from sounds travel through a medium to the ear</p> <p>Sc4/4.1c find patterns between the pitch of a sound and features of the object that produced it</p> <p>Sc4/4.1d find patterns between the volume of a sound and the strength of the vibrations that produced it.</p> <p>Sc4/4.1e recognise that sounds get fainter as the distance from the sound source increases</p>		

Scientific Skills (including enquiry)

	Year 3	Year 4	Year 5	Year 6
Working Scientifically - Enquiry based learning (taught throughout each unit)	<p>Sc4/1.1 asking relevant questions and using different types of scientific enquiries to answer them</p> <p>Sc4/1.2 setting up simple practical enquiries, comparative and fair tests</p> <p>Sc4/1.3 making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</p> <p>Sc4/1.4 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p> <p>Sc4/1.5 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p>	<p>Sc4/1.1 asking relevant questions and using different types of scientific enquiries to answer them</p> <p>Sc4/1.2 setting up simple practical enquiries, comparative and fair tests</p> <p>Sc4/1.3 making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers</p> <p>Sc4/1.4 gathering, recording, classifying and presenting data in a variety of ways to help in answering questions</p> <p>Sc4/1.5 recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables</p>	<p>Sc5/1.1 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>Sc5/1.2 taking measurements, using a range of scientific equipment, with increasing accuracy and precision</p> <p>Sc5/1.3 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs</p> <p>Sc5/1.4 using test results to make predictions to set up further comparative and fair tests</p> <p>Sc5/1.5 reporting and presenting findings from enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations</p>	<p>Sc6/1.1 planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary</p> <p>Sc6/1.2 taking measurements, using a range of scientific equipment, with increasing accuracy and precision</p> <p>Sc6/1.3 recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, and bar and line graphs</p> <p>Sc6/1.4 using test results to make predictions to set up further comparative and fair tests</p> <p>Sc6/1.5 using simple models to describe scientific ideas</p> <p>Sc6/1.6 reporting and presenting findings from</p>

	<p>Sc4/1.6 reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p> <p>Sc4/1.7 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p> <p>Sc4/1.8 identifying differences, similarities or changes related to simple scientific ideas and processes</p> <p>Sc4/1.9 using straightforward scientific evidence to answer questions or to support their findings.</p>	<p>Sc4/1.6 reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions</p> <p>Sc4/1.7 using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions</p> <p>Sc4/1.8 identifying differences, similarities or changes related to simple scientific ideas and processes</p> <p>Sc4/1.9 using straightforward scientific evidence to answer questions or to support their findings.</p>	<p>Sc5/1.6 identifying scientific evidence that has been used to support or refute ideas or arguments.</p>	<p>enquiries, including conclusions, causal relationships and explanations of results, in oral and written forms such as displays and other presentations</p> <p>Sc6/1.7 identifying scientific evidence that has been used to support or refute ideas or arguments.</p>
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Substantive Knowledge Progression across Key Stage 2

Year 3	Year 4	Year 5	Year 6
	<p>Year 3</p> <p>Sc3/2.1 Plants</p> <p>Sc3/2.1a identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p> <p>Sc3/2.1b 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</p> <p>Sc3/2.1c investigate the way in which water is transported within plants</p> <p>Sc3/2.1d explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.</p>	<p>Year 4</p> <p>Sc4/2.1 All Living Things</p> <p>Sc4/2.1a recognise that living things can be grouped in a variety of ways</p> <p>Sc4/2.1b explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment</p> <p>Sc4/2.1c recognise that environments can change and that this can sometimes pose dangers to living things.</p> <p>Sc4/2.2 Animals including humans</p> <p>Sc4/2.2a describe the simple functions of the basic parts of the digestive system in humans</p>	<p>Year 5</p> <p>Sc5/2.1 Living Things and their habitats</p> <p>Sc5/2.1a describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird</p> <p>Sc5/2.1b describe the life process of reproduction in some plants and animals.</p> <p>Sc5/2.2 Animals, including humans</p> <p>Sc5/2.2a describe the changes as humans develop to old age.</p> <p>Sc5/3.1 Properties and Changes of Materials</p>

Sc3/2.2 Animals including humans

Sc3/2.2a 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

Sc3/2.2b identify that humans and some other animals have skeletons and muscles for support, protection and movement.

Sc3/3.1 Rocks

Sc3/3.1a compare and group together different kinds of rocks on the basis of their appearance and simple physical properties

Sc3/3.1b describe in simple terms how fossils are formed when things that have lived are trapped within rock

Sc3/3.1c recognise that soils are made from rocks and organic matter.

Sc3/4.1 Light

Sc4/2.2b identify the different types of teeth in humans and their simple functions

Sc4/2.2c construct and interpret a variety of food chains, identifying producers, predators and prey.

Sc4/3.1 States of Matter

Sc4/3.1a compare and group materials together, according to whether they are solids, liquids or gases

Sc4/3.1b observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)

Sc4/3.1c identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.

Sc4/4.1 Sound

Sc4/4.1a identify how sounds are made, associating some of them with something vibrating

Sc5/3.1a 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

Sc5/3.1b know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution

Sc5/3.1c use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating

Sc5/3.1d give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic

Sc5/3.1e demonstrate that dissolving, mixing and changes of state are reversible changes

Sc5/3.1f 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.

Sc3/4.1a recognise that they need light in order to see things and that dark is the absence of light

Sc3/4.1b notice that light is reflected from surfaces

Sc3/4.1c recognise that light from the sun can be dangerous and that there are ways to protect their eyes

Sc3/4.1d recognise that shadows are formed when the light from a light source is blocked by a solid object

Sc3/4.1e find patterns in the way that the size of shadows change.

Sc3/4.2 Forces and Magnets

Sc3/4.2a compare how things move on different surfaces

Sc3/4.2b notice that some forces need contact between 2 objects, but magnetic forces can act at a distance

Sc3/4.2c observe how magnets attract or repel each other and attract some materials and not others

Sc4/4.1b recognise that vibrations from sounds travel through a medium to the ear

Sc4/4.1c find patterns between the pitch of a sound and features of the object that produced it

Sc4/4.1d find patterns between the volume of a sound and the strength of the vibrations that produced it.

Sc4/4.1e recognise that sounds get fainter as the distance from the sound source increases

Sc4/4.2 Electricity

Sc4/4.2a identify common appliances that run on electricity

Sc4/4.2b construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers

Sc4/4.2c 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

Sc5/4.1 Earth and Space

Sc5/4.1a describe the movement of the Earth, and other planets, relative to the Sun in the solar system

Sc5/4.1b describe the movement of the Moon relative to the Earth

Sc5/4.1c describe the Sun, Earth and Moon as approximately spherical bodies

Sc5/4.1d use the idea of the Earth's rotation to explain day and night, and the apparent movement of the sun across the sky.

Sc5/4.2 Forces

Sc5/4.2a explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object

Sc5/4.2b identify the effects of air resistance, water resistance and friction, that act between moving surfaces

	<p>Sc3/4.2d 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</p> <p>Sc3/4.2e describe magnets as having 2 poles</p> <p>Sc3/4.2f predict whether 2 magnets will attract or repel each other, depending on which poles are facing.</p>	<p>Sc4/4.2d recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</p> <p>Sc4/4.2e recognise some common conductors and insulators, and associate metals with being good conductors.</p>	<p>Sc5/4.2c recognise that some mechanisms including levers, pulleys and gears allow a smaller force to have a greater effect</p>
		<p>Year 3</p> <p>Sc3/2.1 Plants</p> <p>Sc3/2.1a identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers</p> <p>Sc3/2.1b 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</p> <p>Sc3/2.1c investigate the way in which water is transported within plants</p> <p>Sc3/2.1d explore the part that flowers play in the life cycle of flowering plants, including</p>	<p>Year 4</p> <p>Sc4/2.1 All Living Things</p> <p>Sc4/2.1a recognise that living things can be grouped in a variety of ways</p> <p>Sc4/2.1b explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment</p> <p>Sc4/2.1c recognise that environments can change and that this can sometimes pose dangers to living things.</p>

		<p>pollination, seed formation and seed dispersal.</p> <p>Sc3/2.2 Animals including humans</p> <p>Sc3/2.2a 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</p> <p>Sc3/2.2b identify that humans and some other animals have skeletons and muscles for support, protection and movement.</p> <p>Sc3/3.1 Rocks</p> <p>Sc3/3.1a compare and group together different kinds of rocks on the basis of their appearance and simple physical properties</p> <p>Sc3/3.1b describe in simple terms how fossils are formed when things that have lived are trapped within rock</p> <p>Sc3/3.1c recognise that soils are made from rocks and organic matter.</p>	<p>Sc4/2.2 Animals including humans</p> <p>Sc4/2.2a describe the simple functions of the basic parts of the digestive system in humans</p> <p>Sc4/2.2b identify the different types of teeth in humans and their simple functions</p> <p>Sc4/2.2c construct and interpret a variety of food chains, identifying producers, predators and prey.</p> <p>Sc4/3.1 States of Matter</p> <p>Sc4/3.1a compare and group materials together, according to whether they are solids, liquids or gases</p> <p>Sc4/3.1b observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius (°C)</p> <p>Sc4/3.1c identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.</p>
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		<p>Sc3/4.1 Light</p> <p>Sc3/4.1a recognise that they need light in order to see things and that dark is the absence of light</p> <p>Sc3/4.1b notice that light is reflected from surfaces</p> <p>Sc3/4.1c recognise that light from the sun can be dangerous and that there are ways to protect their eyes</p> <p>Sc3/4.1d recognise that shadows are formed when the light from a light source is blocked by a solid object</p> <p>Sc3/4.1e find patterns in the way that the size of shadows change.</p> <p>Sc3/4.2 Forces and Magnets</p> <p>Sc3/4.2a compare how things move on different surfaces</p> <p>Sc3/4.2b notice that some forces need contact between 2 objects, but magnetic forces can act at a distance</p> <p>Sc3/4.2c observe how magnets attract or repel each other and</p>	<p>Sc4/4.1 Sound</p> <p>Sc4/4.1a identify how sounds are made, associating some of them with something vibrating</p> <p>Sc4/4.1b recognise that vibrations from sounds travel through a medium to the ear</p> <p>Sc4/4.1c find patterns between the pitch of a sound and features of the object that produced it</p> <p>Sc4/4.1d find patterns between the volume of a sound and the strength of the vibrations that produced it.</p> <p>Sc4/4.1e recognise that sounds get fainter as the distance from the sound source increases</p> <p>Sc4/4.2 Electricity</p> <p>Sc4/4.2a identify common appliances that run on electricity</p> <p>Sc4/4.2b construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers</p>
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		<p>attract some materials and not others</p> <p>Sc3/4.2d 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</p> <p>Sc3/4.2e describe magnets as having 2 poles</p> <p>Sc3/4.2f predict whether 2 magnets will attract or repel each other, depending on which poles are facing.</p>	<p>Sc4/4.2c 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</p> <p>Sc4/4.2d recognise that a switch opens and closes a circuit and associate this with whether or not a lamp lights in a simple series circuit</p> <p>Sc4/4.2e recognise some common conductors and insulators, and associate metals with being good conductors.</p>
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Sc3/2.1d explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.

Sc3/2.2 Animals including humans

Sc3/2.2a 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

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Sc3/4.1e find patterns in the way that the size of shadows change.

Sc3/4.2 Forces and Magnets

Sc3/4.2a compare how things move on different surfaces

Sc3/4.2b notice that some forces need contact between 2 objects, but

			<p>magnetic forces can act at a distance</p> <p>Sc3/4.2c observe how magnets attract or repel each other and attract some materials and not others</p> <p>Sc3/4.2d 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</p> <p>Sc3/4.2e describe magnets as having 2 poles</p> <p>Sc3/4.2f predict whether 2 magnets will attract or repel each other, depending on which poles are facing.</p>
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