

Working scientifically  a asking simple questions and recognising that they can be answered different ways  b observing closely, using simple equipment  c performing simple tests  d identifying and classifying  e using their observations and ideas to suggest answers to question gathering and recording data to help in answering questions.  Plants  la identify and name a variety of common wild and garden plants, in deciduous and evergreen trees  identify and describe the basic structure of a variety of common plants, including trees.	ncluding n flowering				
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	_				
	ıphibians,				
Animals, including humans	ıphibians,				
identify and name a variety of common animals including fish, am reptiles, birds and mammals					
identify and name a variety of common animals that are carnivore herbivores and omnivores					
describe and compare the structure of a variety of common anim amphibians, reptiles, birds and mammals, including pets)	`				
identify, name, draw and label the basic parts of the human body which part of the body is associated with each sense.  Everyday materials  If distinguish between an object and the material from which it is mentioned.	and say				
Everyday materials	Everyday materials				
distinguish between an object and the material norm which it is n					
identify and name a variety of everyday materials, including wood glass, metal, water, and rock	•				
describe the simple physical properties of a variety of everyday n					
compare and group together a variety of everyday materials on t their simple physical properties.	the basis of				
Seasonal changes					
lk observe changes across the four seasons					
observe and describe weather associated with the seasons and h length varies.	now day				
Living things and their habitats					
explore and compare the differences between things that are livi and things that have never been alive					
identify that most living things live in habitats to which they are s describe how different habitats provide for the basic needs of different of animals and plants, and how they depend on each other	ifferent kinds				
of animals and plants, and how they depend on each other identify and name a variety of plants and animals in their habitats, micro-habitats  describe how animals obtain their food from plants and other an the idea of a simple food chain, and identify and name different so food.	nimals, using				
Plants					
2d observe and describe how seeds and bulbs grow into mature pla	ants				



		2e	find out and describe how plants need water, light and a suitable			
			temperature to grow and stay healthy.			
		Anima	lls, including humans			
		2f	notice that animals, including humans, have offspring which grow into adults			
		2g	find out about and describe the basic needs of animals, including humans, for			
	7		survival (water, food and air)			
	Year 2	2h	describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene.			
	<b>&gt;</b>	Use of everyday materials				
		2i	identify and compare the suitability of a variety of everyday materials,			
			including wood, metal, plastic, glass, brick, rock, paper and cardboard for			
			particular uses			
		2j	find out how the shapes of solid objects made from some materials can be			
			changed by squashing, bending, twisting and stretching.			
		Worki	ng scientifically			
		g	asking relevant questions and using different types of scientific enquiries to answer them			
		h	setting up simple practical enquiries, comparative and fair tests			
		••	making systematic and careful observations and, where appropriate, taking			
		i	accurate measurements using standard units, using a range of equipment,			
			including thermometers and data loggers			
	7		gathering, recording, classifying and presenting data in a variety of ways to			
	Lower KS2	J	help in answering questions			
	er	k	recording findings using simple scientific language, drawings, labelled			
Science	}	K	diagrams, keys, bar charts, and tables			
ier	Ľ		reporting on findings from enquiries, including oral and written explanations,			
Sc		•	displays or presentations of results and conclusions			
		m	using results to draw simple conclusions, make predictions for new values,			
			suggest improvements and raise further questions			
		n	identifying differences, similarities or changes related to simple scientific ideas and processes			
			using straightforward scientific evidence to answer questions or to support			
		0	their findings.			
		Plants				
		3a	identify and describe the functions of different parts of flowering plants:			
			roots, stem/trunk, leaves and flowers			
		2 L	explore the requirements of plants for life and growth (air, light, water,			
		3b	nutrients from soil, and room to grow) and how they vary from plant to			
		3c	investigate the way in which water is transported within plants			
			explore the part that flowers play in the life cycle of flowering plants,			
	Year 3	3d	including pollination, seed formation and seed dispersal.			
	ea	Animals, including humans				
	>		identify that animals, including humans, need the right types and amount of			
		3e	nutrition, and that they cannot make their own food; they get nutrition from			
			what they eat			
		3f	identify that humans and some other animals have skeletons and muscles for			
			support, protection and movement.			
		Rocks				
		3g	compare and group together different kinds of rocks on the basis of their			
		J	appearance and simple physical properties			



		3h	describe in simple terms how fossils are formed when things that have lived			
			are trapped within rock			
		3i	recognise that soils are made from rocks and organic matter.			
		Light				
			recognise that they need light in order to see things and that dark is the			
		3j	absence of light			
		3k	notice that light is reflected from surfaces			
			recognise that light from the sun can be dangerous and that there are ways			
		31	to protect their eyes			
		3m 3n	recognise that shadows are formed when the light from a light source is			
			blocked by a solid object			
	ω.		find patterns in the way that the size of shadows change.			
	Year 3	Forces and magnets				
	×		<u> </u>			
		30	compare how things move on different surfaces			
		3р	notice that some forces need contact between two objects, but magnetic			
		-	forces can act at a distance			
		3q	observe how magnets attract or repel each other and attract some materials			
		•	and not others			
		3r	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			
		3s	describe magnets as having two poles			
		3t	predict whether two magnets will attract or repel each other, depending on			
4)			which poles are facing.			
Science			things and their habitats			
ie.		4a	recognise that living things can be grouped in a variety of ways			
Sc		4b	explore and use classification keys to help group, identify and name a variety			
			of living things in their local and wider environment			
		4c	recognise that environments can change and that this can sometimes pose			
			dangers to living things.			
		Anima	als, including humans			
		4d	describe the simple functions of the basic parts of the digestive system in			
			humans			
		4e	identify the different types of teeth in humans and their simple functions			
		4f	construct and interpret a variety of food chains, identifying producers,			
			predators and prey.			
	4	States of matter				
	Year 4	4g	compare and group materials together, according to whether they are solids,			
	۶	75	liquids or gases			
			observe that some materials change state when they are heated or cooled,			
		4h	and measure or research the temperature at which this happens in degrees			
			Celsius (°C)			
		4i	identify the part played by evaporation and condensation in the water cycle			
		71	and associate the rate of evaporation with temperature.			
		Sound				
		Δi	identify how sounds are made, associating some of them with something			
		4j	vibrating			
		4k	recognise that vibrations from sounds travel through a medium to the ear			
			find patterns between the pitch of a sound and features of the object that			
		41	produced it			



		4m	find patterns between the volume of a sound and the strength of the vibrations that produced it			
			Wibrations that produced it			
		4n	recognise that sounds get fainter as the distance from the sound source			
			increases.			
		Electricity				
	4	<b>4</b> o	identify common appliances that run on electricity			
	Year 4	4р	construct a simple series electrical circuit, identifying and naming its basic parts, including cells, wires, bulbs, switches and buzzers			
	<b>\</b>	4q	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			
		4r	recognise that a switch opens and closes a circuit and associate this with			
			whether or not a lamp lights in a simple series circuit			
		4s	recognise some common conductors and insulators, and associate metals			
			with being good conductors.			
		Working scientifically				
			planning different types of scientific enquiries to answer questions, including			
		р	recognising and controlling variables where necessary			
9	e 7	q	taking measurements, using a range of scientific equipment, with increasing			
	1g(	٩	accuracy and precision, taking repeat readings when appropriate			
i	Sta	r	recording data and results of increasing complexity using scientific diagrams			
	S)	•	and labels, classification keys, tables, scatter graphs, bar and line graphs			
;	Upper Key Stage 2	s	using test results to make predictions to set up further comparative and fair tests			
	pe		reporting and presenting findings from enquiries, including conclusions,			
e l	Up	t	causal relationships and explanations of and degree of trust in results, in oral			
Science	_	·	and written forms such as displays and other presentations			
Ċ.			identifying scientific evidence that has been used to support or refute ideas			
V)		u	or arguments.			
		Living	things and their habitats			
			describe the differences in the life cycles of a mammal, an amphibian, an			
		5a	insect and a bird			
		5b	describe the life process of reproduction in some plants and animals.			
			ils, including humans			
		<b>5</b> c	describe the changes as humans develop to old age.			
			rties and changes of materials			
			compare and group together everyday materials on the basis of their			
		5d	properties, including their hardness, solubility, transparency, conductivity			
			(electrical and thermal), and response to magnets			
_   ·	2		know that some materials will dissolve in liquid to form a solution, and			
	Year	5e	describe how to recover a substance from a solution			
;	Ϋ́	5f 5g 5h	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 and fair tests, for the			
			particular uses of everyday materials, including metals, wood and plastic			
			demonstrate that dissolving, mixing and changes of state are reversible			
		311	changes			
		5i	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.			
			•			



Earth and space					
·	describe the movement of the Earth, and other planets, relative to the Sun in				
the solar system	·				
<b>5k</b> describe the movement of the Moon	describe the movement of the Moon relative to the Earth				
51 describe the Sun, Earth and Moon as	approximately spherical bodies				
use the idea of the Earth's rotation to	o explain day and night and the apparent				
movement of the sun across the sky.					
movement of the sun across the sky.  Forces	Forces				
5n explain that unsupported objects fall	towards the Earth because of the force				
of gravity acting between the Earth a	<u> </u>				
jdentify the effects of air resistance, v	water resistance and friction, that act				
between moving surfaces					
30	cluding levers, pulleys and gears, allow a				
smaller force to have a greater effect					
Living things and their habitats					
describe how living things are classified	<b>5</b> , <b>5</b>				
	and based on similarities and differences,				
including micro-organisms, plants and					
<b>6b</b> give reasons for classifying plants and characteristics.	animals based on specific				
Animals, including humans	ha harraga sinanlata manazara an d				
6c identify and name the main parts of the describe the functions of the heart, b					
recognise the impact of diet evencies	e, drugs and lifestyle on the way their				
bodies function	e, drugs and mestyle on the way then				
describe the ways in which nutrients	and water are transported within				
animals, including humans.					
Evolution and inheritance					
6f recognise that living things have chan	ged over time and that fossils provide				
information about living things that in	hhabited the Earth millions of years ago				
recognise that living things produce of	offspring of the same kind, but normally				
onspring vary and are not identical to	•				
6h identify how animals and plants are a	•				
different ways and that adaptation ma	ay lead to evolution.				
Light					
6i recognise that light appears to travel					
	ght lines to explain that objects are seen				
because they give out of reflect light					
6k explain that we see things because light					
eyes or from light sources to objects	ght lines to explain why shadows have				
the same shape as the objects that ca					
Electricity	ist them.				
associate the hrightness of a lamp or	the volume of a huzzer with the				
number and voltage of cells used in the					
compare and give reasons for variation					
6n including the brightness of bulbs, the	•				
position of switches					
<b>60</b> use recognised symbols when repres	enting a simple circuit in a diagram.				