

Science – Progression of Scientific Knowledge

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<u>Plants</u>	<u>Plants</u>	<u>Plants</u>	<u>Plants</u>	Living Things &	Living Things &	Living Things &
1a 1 Know a variety	1a 1 Know a variety	2b1 : Know how	3a1: Know the	Their Habitats	Their Habitats	Their Habitats
of local garden	of common wild	seeds and bulbs	functions of	4a1: Know that	5a1 : Know the	6a1: Know how
plants, and trees	and garden plants,	grow into mature	different parts of	living things can be	differences in the	living things are
1a 2 Identify and	including	plants	flowering plants:	grouped in a	life cycles of a	classified into
Know the basic	deciduous and	2b2: Know how	roots, stem/trunk,	variety of ways	mammal, an	broad groups
structure of a	evergreen trees	plants need water,	leaves and flowers	4a2: knowledge of	amphibian, an	according to
flower and tree	1a 2 Know the	light and a suitable	3a2: explore the	classification keys	insect and a bird	common
	basic structure of a	temperature to	requirements of	to help group,	5a2 : Know the life	observable
	variety of common	grow and stay	plants for life and	Know a variety of	process of	characteristics and
	flowering plants,	healthy.	growth (air, light,	living things in their	reproduction in	based on
	including trees		water, nutrients	local and wider	some plants and	similarities and
			from soil, and room	environment	animals.	differences,
			to grow) and how	4a3: Know that		including micro-
			they vary from	environments can		organisms, plants
			plant to plant	change and that		and animals
			3a3: Know how to	this can sometimes		6a2: Know how to
			investigate the	pose dangers to		classify plants and
			way in which water	living things.		animals based on
			is transported			specific
			within plants			characteristics.
			3a4 : explore the			
			part that flowers			
			play in the life cycle			
			of flowering plants,			
			including			
			pollination, seed			



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Minibeasts	Animals Including	plants and other animals, using the idea of a simple food chain, and Know different sources of food. Animals Including	Animals Including	Animals Including	Animals Including	Animals Including
1b1 : Know a	Humans	Humans	Human	Humans	Humans	Humans
variety of common	1b1 : Know a	2c1: know that	3b1 : Know that	4b1 : Know the	5b1 : Know the	6b1 : Know the
insects	variety of common	animals, including	animals, including	simple functions of	changes as humans	main parts of the
	animals including	humans, have	humans, need the	the basic parts of	develop to old age	human circulatory
	fish, amphibians,	offspring which	right types and	the digestive		system, and Know
	reptiles, birds and	grow into adults	amount of	system in humans		the functions of the
	mammals	2c2: find out about	nutrition, and that	4b2 : identify the		heart, blood vessels
	1b2 : Know a	and Know the	they cannot make	different types of		and blood
	variety of common	basic needs of	their own food;	teeth in humans		6b2 : Know the
	animals that are	animals, including	they get nutrition	and their simple functions		impact of diet,
	carnivores, herbivores and	humans, for survival (water,	from what they eat 3b2 : Know that	4b3 : know a variety		exercise, drugs and lifestyle on the way
	omnivores	food and air)	humans and some	of food chains,		their bodies
	1b3 : Know and	2c3: Know the	other animals have	identifying		function
	compare the	importance for	skeletons and	producers,		6b3 : Know the
	structure of a	humans of	muscles for	predators and prey.		ways in which
	variety of common	exercise, eating the	support, protection			nutrients and water
	animals (fish,	right amounts of	and movement.			are transported
	amphibians,	different types of				within animals,
	reptiles, birds and	food, and hygiene.				including humans.
	mammals,					
	including pets)					
	1b4 : know the					
	basic parts of the					
	human body and					



	say what part of the body is associated with which sense					
Materials Know a variety of everyday materials and explore their properties	Everyday materials 1c1: know that object and the material from which it is made 1c2: Know a variety of everyday materials, including wood, plastic, glass, metal, water and rock 1c3: Know the simple physical properties of a variety of materials 1c4: know a variety of everyday materials on the basis of their simple physical properties	Materials 2d1: know that a suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses 2d2: know how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.	Rocks 3c1: know the different kinds of rocks on the basis of their appearance and simple physical properties 3c2: Know in simple terms how fossils are formed when things that have lived are trapped within rock 3c3: Know that soils are made from rocks and organic matter.	States of Matter 4c1: know that group materials together, according to whether they are solids, liquids or gases 4c2: know that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees Celsius 4c3: know the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	Properties & Changes of Materials 5c1: know that group together everyday materials on the basis of their properties, including their hardness, solubility, transparency, conductivity (electrical and thermal), and response to magnets 5c2: know that some materials will dissolve in liquid to form a solution, and Know how to recover a substance from a solution 5c3: use knowledge of solids, liquids and gases to decide how mixtures	



				might be separated, including through filtering, sieving and evaporating 5c4: know what fair tests, for the particular uses of everyday materials, including metals, wood and plastic 5c5: know that dissolving, mixing and changes of state are reversible	
				-	
				changes	
				5c6: know that	
				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	
<u>Light</u>		<u>Light</u>	<u>Sound</u>	Earth Space	<u>Light</u>



Know different	3d1: Know that	4d1: know how	5d1 : Know the	6d1: Know that
times of the day.	they need light in	sounds are made,	movement of the	light appears to
,	order to see things	associating some of	Earth, and other	travel in straight
	and that dark is the	them with	planets, relative to	lines
	absence of light	something	the Sun in the solar	6d2 : know the idea
	3d2: know that	vibrating	system	that light travels in
	light is reflected	4d2: Know that	5d2 : Know the	straight lines to
	from surfaces	vibrations from	movement of the	explain that objects
	3d3: Know that	sounds travel	Moon relative to	are seen because
	light from the sun	through a medium	the Earth	they give out or
	can be dangerous	to the ear	5d3: Know the	reflect light into the
	and that there are	4d3: know that the	Sun, Earth and	eye
	ways to protect	pitch of a sound	Moon as	6d3: know that we
	their eyes	and features of the	approximately	see things because
	3d4: Know that	object that	spherical bodies	light travels from
	shadows are	produced it	5d4: know that the	light sources to our
	formed when the	4d4: know that the	idea of the Earth's	eyes or from light
	light from a light	volume of a sound	rotation to explain	sources to objects
	source is blocked	and the strength of	day and night and	and then to our
	by a solid object	the vibrations that	the apparent	eyes
	3d5 : fknow that the	produced it	movement of the	6d4 : know that the
	size of shadows	4d5: Know that	sun across the sky	idea that light
	change.	sounds get fainter		travels in straight
		as the distance		lines to explain why
		from the sound		shadows have the
		source increases		same shape as the
				objects that cast
				them.
	<u>Forces and</u>	<u>Electricity</u>	<u>Forces</u>	<u>Electricity</u>
	<u>Magnets</u>	4e1 : identify	5e1 : explain that	6e1 : associate the
		common	unsupported	brightness of a

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3e1 : know how	appliances that run	objects fall towards	lamp or the volume
things move on	on electricity	the Earth because	of a buzzer with the
different surfaces	4e2: know how to	of the force of	number and
3e2 : notice that	construct a simple	gravity acting	voltage of cells
some forces need	series electrical	between the Earth	used in the circuit
contact between	circuit, identifying	and the falling	6e2 : know that a
two objects, but	and naming its	object	variations in how
magnetic forces	basic parts,	5e2 : know that the	components
can act at a	including cells,	effects of air	function, including
distance	wires, bulbs,	resistance, water	the brightness of
3e3: know how	switches and	resistance and	bulbs, the loudness
magnets attract or	buzzers	friction, that act	of buzzers and the
repel each other	4e3: know whether	between moving	on/off position of
and attract some	or not a lamp will	surfaces	switches
materials and not	light in a simple	5e3 : Know that	6e3 : use
others	series circuit, based	some mechanisms,	Knowledge symbols
3e4: know how to	on whether or not	including levers,	when representing
group together a	the lamp is part of	pulleys and gears,	a simple circuit in a
variety of everyday	a complete loop	allow a smaller	diagram.
materials on the	with a battery	force to have a	
basis of whether	4e4 : Know that a	greater effect	
they are attracted	switch opens and		
to a magnet, and	closes a circuit and		
identify some	associate this with		
magnetic materials	whether or not a		
3e5 : Know	lamp lights in a		
magnets as having	simple series circuit		
two poles	4e5 : Know some		
3e6 : know that	common		
two magnets will	conductors and		
attract or repel	insulators, and		
each other,	associate metals		
depending on			
acpending on	1	l	l .



		which poles are	with being good	
		facing.	conductors.	