

Care, Share, Respect, Learn!

	Progression Statements			
	EYFS	Years 1 and 2	Years 3 and 4	Years 5 and 6
Biology	Plants -Identify that plants grow from a seedIdentify parts of a plant - flower, stem, leaf, and rootObserve and describe how seeds grow including cressMake predictions about how water is absorbed Observe living things and their habitats -Create habitats for animals using natural and man-made resourcesIdentify mini beasts in the local environment. Animals including humans Identify different coverings of humans and animals — fur, feather, scales and skinDescribe	Plants -Identify and name a variety of common wild and garden plants, including deciduous and evergreen treesIdentify and describe the basic structure of a variety of common flowering plants, including treesObserve and describe how seeds and bulbs grow into mature plantsFind out and describe how plants need water, light and a suitable temperature to grow and stay healthy. Animals including humans -Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammalsIdentify and name a variety of common animals that are carnivores, herbivores and omnivores.	Green plants - 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 and explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal. Animals including humans/The Human body - 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.	Animals including humans -Describe the changes as humans develop to old age. Living things and their habitats - Describe the differences in the life cycles of a mammal, an amphibian, an insect and a birdDescribe the life process of reproduction in some plants and animals. Animals including humans/The Human body - Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and bloodRecognise the impact of diet, exercise, drugs and lifestyle on the way their bodies functionDescribe the ways in which nutrients and water are transported within animals, including humans.



Care, Share, Respect, Learn!

Science

the texture of different animal's skin.

-Find out about camouflage.

Seasonal Changes

Observe changes in the four seasons linked to seasonal fruit, festivals and changes in weather patterns.

- Recognise hibernation of some animals during the seasons.

- -Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets). -Identify, name, draw and label the 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, diet and hygiene.

Seasonal changes

-Observe changes across the four seasons and observe and describe weather associated with the seasons and how day length varies.

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

- -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.

Living things and their habitats

- -Recognise that living things can be grouped in a variety of ways and 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.

Evolution and inheritance

I can recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago.

- Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents.
- -Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.

Variation and classification

-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.



Care, Share, Respect, Learn!

		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.		
		-Describe how animals obtain their		
		food from plants and other animals,		
		using the idea of a simple food		
		chain, and identify and name		
		different sources of food.		
Chemistry	Everyday Materials	Everyday Materials	Rocks	Properties and changes of materials
	-Explore and test	-Distinguish between an object and	-Compare and group together	-Compare and group together
	materials that sink and	the material from which it is made.	different kinds of rocks on the basis	everyday materials on the basis of
	float.	-Identify and name a variety of	of their appearance and simple	their properties, including their
	-Identify and name a	everyday materials, including wood,	physical properties.	hardness, solubility, transparency,
	variety of everyday	plastic, glass, metal, water, and	-Describe in simple terms how	conductivity (electrical and thermal),
	materials using touch.	rock.	fossils are formed when things that	and response to magnets.
	-Identify the suitability of	-Describe the simple physical	have lived are trapped within rock.	-Know that some materials will
	some materials for their	properties of a variety of everyday	-Recognise that soils are made from	dissolve in liquid to form a solution,
	purpose.	materials.	rocks and organic matter.	and describe how to recover a
		-Compare and group together a	States of matter	substance from a solution.
		variety of everyday materials on the	-Compare and group materials	-Use knowledge of solids, liquids
		basis of their simple physical	together, according to whether	and gases to decide how mixtures
		properties.	they are solids, liquids or gases.	might be separated, including



Care, Share, Respect, Learn!

	materials, inc plastic, glass, cardboard fo -Find out how objects made can be chang	compare the a variety of everyday luding wood, metal, brick, rock, paper and reparticular uses. In the shapes of solid from some materials ed by squashing, ting and stretching.	-Observe that some materials change state when they are heated or cooled, and measure or research the temperature at which this happens in degrees CelsiusIdentify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	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 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.
Physics	-		Light Recognise that we need light in order to see things and that dark is the absence of lightSee that light is reflected from surfaces and recognise that light from the sun can be dangerous and that there are ways to protect my eyesRecognise that shadows are formed when the light from a light	Light -Recognise that light appears to travel in straight lines and use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eyeExplain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.



Care, Share, Respect, Learn!

DERBYSHIRE	Science	
	source is blocked by an opaque	- Use the idea that light travels in
	object.	straight lines to explain why
	-Find patterns in the way that the	shadows have the same shape as
	size of shadows change.	the objects that cast them.
	Forces and magnets	Earth and space
	Compare how things move on	- Describe the movement of the
	different surfaces and see that	Earth, and other planets, relative to
	some forces need contact between	the Sun in the solar system.
	two objects, but magnetic forces	-Describe the movement of the
	can act at a distance.	Moon relative to the Earth and
	-Observe how magnets attract or	describe the Sun, Earth and Moon
	repel each other and attract some	as approximately spherical bodies.
	materials and not others.	- Use the idea of the Earth's rotation
	-Compare and group together a	to explain day and night and the
	variety of everyday materials on the	apparent movement of the sun
	basis of whether they are attracted	across the sky.
	to a magnet, and identify some	-Explain that unsupported objects
	magnetic materials.	fall towards the Earth because of
	-Describe magnets as having two	the force of gravity acting between
	poles. I can predict whether two	the Earth and the falling object.
	magnets will attract or repel each	<u>Forces</u>
	other, depending on which poles	- Identify the effects of air
	are facing.	resistance, water resistance and
	<u>Electricity</u>	friction that act between moving
	-Identify common appliances that	surfaces.
	run on electricity and construct a	- Recognise that some mechanisms,
	simple series electrical circuit,	including levers, pulleys and gears,
	identifying and naming its basic	allow a smaller force to have a
		greater effect.



Care, Share, Respect, Learn!

CKB) SPILNE			
	ра	arts, including cells, wires, bulbs,	Electricity
	SW	witches and buzzers.	- Associate the brightness of a lamp
	-1d	dentify whether or not a lamp will	or the volume of a buzzer with the
	lig	ght in a simple series circuit, based	number and voltage of cells used in
	on	n whether or not the lamp is part	the circuit.
	of	f a complete loop with a battery	- Compare and give reasons for
	-R	Recognise that a switch opens and	variations in how components
	clo	loses a circuit and associate this	function, including the brightness of
	wi	vith whether or not a lamp lights in	bulbs, the loudness of buzzers and
	as	simple series circuit.	the on/off position of switches.
	-Ri	Recognise some common	- Use recognised symbols when
		onductors and insulators, and	representing a simple circuit in a
	as	ssociate metals with being good	diagram.
	СО	onductors.	
		<u>ound</u>	
		Identify how sounds are made,	
		ssociating some of them with	
		omething vibrating.	
		Recognise that vibrations from	
	SO	ounds travel through a medium to	
		ne ear.	
		Find patterns between the pitch	
		f a sound and features of the	
		bject that produced it.	
		Find patterns between the volume	
		f a sound and the strength of the	
	vik	ibrations that produced it.	



Care, Share, Respect, Learn!

			-Recognise that sounds get fainter as the distance from the sound source increases.	
Working scientifically	-Make predictions from observing basic experimentsUse simple equipment to observe scientific investigations.	-Ask simple questions and recognise that they can be answered in different waysObserve closely, using simple equipment Perform simple tests and identify and classify Use observations and ideas to suggest answers to questions Gather and record data to help in answering questions.	-Ask relevant questions and use different types of scientific enquiries to answer them. - Set up simple practical enquiries, comparative and fair tests. - Make systematic and careful observations and, where appropriate, take accurate measurements using standard units, using a range of equipment, including thermometers and data loggers. - Gather, record, classify and present data in a variety of ways to help answer questions. - Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables. - Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.	-Plan different types of scientific enquiries 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, bar and line 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.



Care, Share, Respect, Learn!

	- Use results to draw simple	-Identify scientific evidence that has
	conclusions, make predictions for	been used to support or refute ideas
	new values, suggest improvements	or arguments.
	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.	