

Science Curriculum

At Great Hollands Primary School, we believe that science education provides the opportunity for pupils to understand the world around them and we encourage our pupils to be curious about natural phenomena. To help support this, where possible, science links to our wider topics. This approach allows children to explore science in a wider context and provides extended learning opportunities. This starts in EYFS where the children explore their natural environment through seasonal changes and some key physical processes.

Progress in science is important to us and we focus on developing key scientific skills with our children so they are well prepared for the expectations in the next key stage. Scientific enquiry skills include: asking questions, making predictions, setting up experiments, observing and measuring, recording data, interpreting results and evaluating. Pupils are encouraged to use scientific vocabulary with teachers planning in explicit opportunities to develop these skills in each unit of work.

Whilst at GHPS, children will learn about plants, animals including humans, materials, seasonal change, habitats, rocks, light, forces, states of matter, sound, electricity, earth and space and evolution and inheritance. Where appropriate, visits by specialists, alongside close links with local secondary schools, will enhance the delivery of our science curriculum.

	GHPS Science Content Overview								
٦	Ferm	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2		
	Topics	What makes me me?	How can I stay safe and healthy?	What makes a home and school?	Are things the same everywhere?	How do things grow and change?	How can I take care of my world?		
	Science (UW) Focus	Exploring with my senses Using my senses to explore natural materials	Keeping Healthy My body parts and healthy eating	Materials and how things work Exploring what happens to materials & making toys work	Forces and changes in Materials What happens to things in water, wind and on slopes	Life cycles Life cycle on a plant and caterpillar & caring for living things	Caring for the natural World Caring for living things in my world & natural environment		
	DM	<mark>A</mark> B <mark>C</mark> D E F G H I	<mark>A</mark> B <mark>C</mark> D E F G H <mark>I</mark>	ABCDEFGH	A B <mark>C</mark> D E F G <mark>H</mark> I	ABCDEFGHI	A B <mark>C</mark> D <mark>E</mark> F <mark>G</mark> H I		
EYFS 1 Nursery		Explore the texture and feel of materials. Talk about what they can see, developing vocabulary. Explore what they hear, distinguishing sounds. Explore sense of smell developing vocabulary. Explore their sense of taste, developing vocabulary and knowledge about dangers. Explore and collect materials from the natural environment. Use senses to explore natural materials including different leaves.	Learn to name some body parts and what they do. Learn ways we keep our body healthy including the food we eat and hygiene. Explore a range of healthy foods using all senses and talk about what they can see, feel, smell and taste. Explore what happens to food after time. Explore what happens to materials when mixed together to make gingerbread and talk about what they see.	Explore our school through a senses walk. Explore collections of materials for building. Explore collections of natural materials including stones and shells. Explore strength of materials by snapping. Explore what happens to materials when light is shone through them. Explore what happens to materials when water is put on them. Explore how mechanical things work. Talk about what they see using vocabulary.	Explore materials that float and sink. Explore what happens when pushing things that float into water (force). Explore wind powered things like toy windmills. Explore magnetic forces with magnets and different materials. Explore slopes with water, and a range of different items. Talk about what they see using vocabulary.	Learn and understand the key features of the life cycle of a butterfly. Learn and understand the key features of the life cycle of a frog. Learn and understand the key features of the life cycle of a plant. Explore collections of different seeds. Plant seeds and care for growing plants. Talk about what they see using vocabulary. Notice changes and growth in themselves since being a baby.	Care for the plants they are growing and explore what they need to stay healthy. Talk about what they see using vocabulary. Explore how to care for all living things including humans. Explore, through photographs, why we need to take care of our world and living things in it, including our oceans – explore litter, recycling and respecting the natural environment.		
	DM Understanding the World The Natural World	Development Matters A. Use all their senses in hands-on exploration of natural materials. B. Explore collections of materials with similar and/or different properties.							

	Topics	What will my first Autumn at school be like?	Why are people, places, times and things special?	What changes in Winter and is it the same everywhere?	Who helps us to stay safe, healthy and well	How is life in the UK different to other places around the world?	Have things always been the same?
	Science Focus	The Natural world in Autumn Using my senses to explore my natural school environment	Light, colour and sounds Exploring light, dark, colours sounds linked to Bonfire Night	The Natural world in Winter Explore seasonal changes and contrasting environments	Keeping fit and Healthy Exploring my body parts and keeping it healthy	The Natural world in Spring Explore seasonal changes in my natural environment	The Natural world in Summer Explore seasonal changes in my natural environment
EYFS 2 Reception	ELG & DM	123ABCDMake observations about their natural environment Draw pictures of plants and animals Describe what they see, hear, feel outside in Autumn (Link to senses from FS1) Explore texture of natural materials Explore seasonal aspect Harvest seeds they planted in Nursery and explore where food comes from Revise life cycles and plant Spring Bulbs (Link with life cycles from FS1)	1 2 3 A B C D Explore light and dark – day and night Explore mixing colours and include the rainbow Explore different sounds – loud and quiet linked to fireworks Explore moving parts on toys and magnets including push and pull (Build on forces from FS1) Explore what materials things are made of link to toys (Build on different materials FS1)	123ABCDExplore their natural environment in Winter Draw pictures of plants and animalsSSSDescribe what they see, hear, feel outside in Winter (Link to senses from FS1) Recognise seasonal changes linked to weather, plants and animalsSSExplore water/ice - freezing and melting Learn about different environments exploring hot and cold/wet and dry - polar, desert, jungle, ocean, moon	1 2 3 A B C D Learn to name parts of the body including wrist, ankle, elbow, chest, waist, hip, thigh, nostril shoulder and what they do to help us Explore how our bodies grow and change over time (link to growth in FS1) Explore good habits to stay safe, fit and healthy including healthy eating Learn about the importance of hygiene including oral hygiene Explore rolling vehicles and shapes on flat and sloped surfaces Revise life cycles by reviewing bulbs	123ABCDExplore their natural environment in Spring Draw pictures of plants and animalsSpringSpringSpringDescribe what they see, hear, feel outside in Spring (Link to senses from FS1) Recognise seasonal changes linked to weather, plants and animals inc. growth (Link to life cycles in FS1) Explore wet and dry on materials and link to environments around the world. Explore material strength (Build on different materials FS1)	123ABCDExplore their natural environment in Summer Draw pictures of plants and animals Describe what they see, hear, feel outside in Summer (Link to senses from FS1) Recognise seasonal changes linked to weather, plants and animals Explore shadows on the ground and how they change Explore materials that float and sink (Link to materials properties FS1)
	ELG The Natural World	pictures of animals 2. Know some similari them and contrasti has been read in cla 3. Understand some in	ties and differences between ng environments, drawing on	the natural world around their experiences and what ges in the natural world	C. Recognise some env live.	world around them. see, hear and feel whilst outsi ironments that are different t ct of changing seasons on the	o the one in which they

	Tonics	What makes me special?	How are the toys we play	Why was a castle built	What makes me proud of	Who lives in the Animal	How did families have fun			
	Topics		with made?	here? Windsor Castle	our place?	Kingdom?	in the past?			
	Colonno		Photo diary - mapping	Year 1 seasonal changes	linked to weather and o	ur tree (link in clothing)				
	Science	Humans	Everyday Materials		Plants	Animals	Seasonal changes			
	Focus	My body parts and my senses	What things are made from		Naming and describing basic	Identify and name types and	Review mapped changes in weather & seasonal in tree			
	Skills	1 2 3 4 5 6 7	and properties of materials	1 2 3 4 5 6 7	structures	compare structures	1 2 3 4 5 6 7			
	JKIIIS	Identify, name, draw and	Distinguish between an	Observe and describe	Identify and name a variety	Identify and name a variety	Observe changes across the			
Year 1	Year 1 Programme of Study	label the basic parts of the human body and say which part is associated with each sense. Observe and describe weather associated with the seasons and how day length varies (Autumn).	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 & group together a variety of everyday materials on the basis of their simple physical properties.	weather associated with the seasons and how day length varies (Winter).	of common wild and garden plants, including deciduous and evergreen trees. Identify and describe the basic structure of a variety of common flowering plants. Observe and describe weather associated with the seasons and how day length varies (Spring).	of common animals including fish, amphibians, reptiles, birds and mammals. Identify and name a variety of animals that are carnivores, herbivores and omnivores. Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals including pets).	four seasons. Observe and describe weather associated with the seasons and how day length varies (Summer).			
	KS1 Working Scientifically	 Asking simple quest Observing closely, t Performing simple Identifying and clast Using their observation Gathering and recommendation 	tions and recognising that the using simple equipment. tests. sifying. tions and ideas to suggest an rding data to help in answerin	-	it ways.					

Proposed by the service of the serv	Topics	What happened in the Great Fire?	How can we make a healthy lunchbox?	What is the best way for Mrs Armitage to travel?	What makes us like other animals?	What do plants need to grow?	How would my life be different if I lived in the Amazon?			
Focus Animals inc. Humans Needs for survival, healt and offspring Everyday Viniterials surbality for materials and changing shapes Habitats tidentify and how suited in c. simple food chains Observe growth and the things they need for growth and head for simple food chains Skills 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 3 4 5 6 7 12 2 3 4 5 6 7										
Program Ongoing weather tracking - Observe, describe and record weather. Describe the importance for humans of exercise, eating the right amounts of different types of food an hygiene. Identify and compare the suitability of a variety of exercise, rack, paper and cardboard for particular uses. Find out about and describe the basic needs of animals including humans for survival (water, food, air). Notice that animals, inc. humans, have offspring wood, metal, platic, glass, suitability of a variety of exroboard for particular uses. Find out about and describe the basic needs of animals including humans for survival (water, food, air). Notice that animals, inc. humans, have offspring wood, metal, platic, glass, suitable temperature to grow and stay healthy. Observe, adescribe how plants suitable temperature to grow and stay healthy. Ongoing weather tracking - Observe, describe and record weather. Observe, describe and record weather. Notice that animals, inc. humans, have offspring wood, metal, platic, glass, suitable temperature to grow and stay healthy. Observe, describe and record weather. Observe, describe and record weather. Observe, describe and record weather. Weather tracking - Observe, describe and record weather. Observe, describe and record weather. Notice that animals, sinch different kinds of animals and plants and how they depend on each other. Identify and name different sources of food. Observe, 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. Pupils should be taught to use the following practical scientific methods, processes and skills through the teaching of the programme			Needs for survival, health	Suitability of materials and	Habitats Identify and how suited inc.	Observe growth and the things they need for growth				
Parts Observe, describe and record weather. humans of exercise, eating the right amounts of different types of food and hygiene. suitability of a variety of everyday materials, including which grow into humans. suitability of a variety of everyday materials, including which grow into humans. seeds and bulbs grow into materials, rolicing which grow into humans. seeds and bulbs grow into humans. racking, noticing (compare the different types of food and hygiene. Find out about and describe hit beasic needs of animals including humans for survay (watter, food, air). Ongoing weather tracking - Observe, describe and record weather racking - Observe, describe and record weather. bending, twisting and strap healting. bending, twisting and strap healting. Ongoing weather tracking - Observe, describe and record weather racking - Observe, describe and record weather. weather. Dogsing weather tracking - Observe, describe and record weather racking - Observe, describe and record weather. bending, twisting and strap healting and plants and own they depend on each other. Boserue avariety of plants and own they depend on each other. Boserue avariety of plants and own they depend on each other. Boserue food chain and iterify and ane different source of od. Boserue avariety of plants and animals, using the idea of a simple food chain and iterify and ane different sources of food. Boserue describe to weather sources of food. Boserue describe to weather. Boserue describe to weather sources of food. Boserue describe avariety of a simple equipment. Boserue describe how animals to therent sources of food. Boserue de	Skills	<mark>1</mark> 2 3 4 <mark>5 6</mark> 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 <mark>5 6</mark> 7			
1. Asking simple questions and recognising that they can be answered in different ways. 2. Observing closely, using simple equipment.	Year 2 2 Programme of Study	Observe, describe and record	humans of exercise, eating the right amounts of different types of food and hygiene. Find out about and describe the basic needs of animals including humans for survival (water, food, air). Ongoing weather tracking – Observe, describe and record	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. Ongoing weather tracking – Observe, describe and record	humans, have offspring which grow into humans. Explore and compare the differences between things that are living, dead & 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 microhabitats. Describe how animals obtain their food from plants and other animals, using the idea of a simple food chain and identify and name different	seeds and bulbs grow into mature plants. Find and describe how plants need water, light and a suitable temperature to grow and stay healthy. Ongoing weather tracking – Observe, describe and record	Review ongoing weather tracking, noticing patterns (compare to Amazon).			
6. Gathering and recording data to help in answering questions.	KS1 Working Scientifically	 Asking simple questions and recognising that they can be answered in different ways. Observing closely, using simple equipment. Performing simple tests. Identifying and classifying. Using their observations and ideas to suggest answers to questions. 								

	Topics	How did Britain change from the Stone Age to the Iron Age?	What is Britain and the UK like now?	Who were the greatest builders?	What do plants need to stay healthy?	How is a region of Mexico & the UK the same/ different?	What forces move (make) mountains?
	Science Focus	Rocks Appearance and properties of rocks, fossils and soils	Animals inc. Humans Function of skeletons and muscles	Light The sun, how we see light, how shadows are formed and changed	Plants Function of parts including life cycles & requirements for growth	*Living things and their Habitats Grouping, classifying and changes to environments	Forces and Magnets Comparing how things move on different surfaces & basics of magnetic forces & magnetism
	Skills	1 2 3 4 5 6 7 8 9 10	<mark>1</mark> 2 3 4 5 6 7 8 <mark>9 10</mark>	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10
Year 3	Year 3 Programme of Study	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 things that have lived are trapped within rock. Recognise that soils are made from rocks and organic matter.	Identify that humans and some other animals have skeletons and muscles for support, protection and movement.	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 an opaque object. Find patterns in the way that the size of shadows change.	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.	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 in the local area and Guatemala.	Compare how things move on different surfaces notice that some forces need contact between 2 objects, but magnetic forces can act at a distance. Observe how magnets attract or repel 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 two poles. Predict whether two magnets will attract or repel each other, depending on which poles are facing.
	LKS2 Working Scientifically	 Asking relevant que Setting up simple p Making systematic thermometers and Gathering, recordin Recording findings Reporting on findin Using results to dra Identifying differen Using straight forward 	estions and using different typ ractical enquiries, comparativ and careful observations and, data loggers. g, classifying and presenting of using simple scientific languag gs from enquiries, including of w simple conclusions, make p ces, similarities or changes re ard scientific evidence to answ	ntific methods, processes and bes of scientific enquiries to an ore and fair tests. , where appropriate, taking ac data in a variety of ways to he ge, drawings, labelled diagran bral and written explanations, predictions for new values, sup lated to simple scientific idea wer questions or to support th secondary sources (books, pho	nswer them. ccurate measurements using selp in answering questions. ns, keys, bar charts, and tables displays or presentations of r ggest improvements and raises and processes. heir findings.	standard units, using a range of s. esults and conclusions. e further questions.	of equipment, including

	Topics	What legacies did the Ancient Greeks leave on modern culture?	How was William Shakespeare influenced by the Ancient Greeks?	What did the Romans leave behind?	What makes Italy roar?	How did the loss of the cacao bean contribute to the collapse of the Mayan Empire?	How does chocolate move through our digestive system?	
Year 4	Science Focus	Sound How sound is made, travels and is changed	Electricity Appliances, circuits, switches, conductors and insulators	Animals and Habitats Explore types of living things, food chains and changes to environments		States of Matter Solids, liquids and gases, changes in state including the water cycle	Animals inc. Humans The digestive system, the function of teeth and *nutrition	
	Skills	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	1 2 3 4 5 6 7 8 9 10	
	Year 4 Programme of Study	Identify how sounds are made, associating some of them with something vibrating. 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 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.	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.	Construct and interpret a variety of food chains, identifying producers, predators and prey. Recognise that environments can change and that this can sometimes pose dangers to living things in Italy and the wider world.		Compare and group materials together, according to whether they are solids, liquids or gases. To know the identifiable features of solids, liquids and gases. 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). Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.	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. 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.	
	LKS2 Working Scientifically							

	Topics	Why did people invade and settle in Britain?	Where did they settle and why?	How did the Kingdom o	of England come to be?	Where in the World?	What is the power of The River Thames?
Year 5	Science Focus	Living things and their Habitats Life cycles and reproduction	Properties and changes of Materials Properties of everyday materials and fair testing	Properties and changes of Materials Dissolving, separating and irreversible changes	* Electricity Changing brightness and loudness and using symbols for circuits	Forces Gravity, resistance, friction, levers, pulleys and gears	Animals inc. Humans Aging
	Skills	12 <mark>3</mark> 4 <mark>567</mark>	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	12 <mark>3</mark> 4 <mark>567</mark>
	Year 5 Programme of Study	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.	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. To understand the basic structure of solids, liquids and gases. Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic.	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. 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 & the action of acid on bicarbonate of soda.	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 for variations in how components function, including the brightness of bulbs, the loudness of buzzers and the on/off position of switches. Use recognised symbols when representing a simple circuit in a diagram.	Explain that unsupported objects fall towards the Earth because of the force of gravity acting 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.	Describe the changes as humans develop to old age.
	UKS2 Working Scientifically	 Planning different f Taking measureme Recording data and Using test results to Reporting and press forms such as displ Identifying scientifi 	types of scientific enquiries to nts, using a range of scientific l results of increasing complex o make predictions to set up f enting findings from enquiries ays and other presentations. c evidence that has been used read & spell scientific vocabul	ntific methods, processes and answer questions, including r equipment, with increasing a kity using scientific diagrams a urther comparative and fair to s, including conclusions, causa d to support or refute ideas or lary correctly, use wide range nctions, relationships and inte	recognising and controlling va ccuracy and precision, taking nd labels, classification keys, ests. Il relationships and explanation rarguments. of secondary sources, group of	riables where necessary. repeat readings when approp tables, scatter graphs, bar and ons of and degree of trust in re and classify, observe changes of	oriate. d line graphs. esults, in oral and written over different periods of

	Topics	What is out of this World?	How do living things, including us, stay healthy?	What was the significance of the Battle of Britain?	Why do some creatures no longer exist?	How successful are we as entrepreneurs?		
	Science Focus	*Earth and Space Movement of the earth and other planets around the sun including the earth's rotation	e earth and und the sun and healthy living and the impact on shadows					
	Skills	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 3 4 5 6 7	1 2 <mark>3</mark> 4 <mark>5</mark> 6 7	1 2 3 4 5 6 7		
Year 6	Year 6 Programme of Study	Describe the movement of the Earth and other planets relative to the sun in the solar system. Describe the movement of the moon relative to the Earth. Describe the sun, Earth and moon as approximately spherical bodies. Use the idea of the Earth's rotation to explain day and night and the apparent movement of the sun across the sky.	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 on the way their bodies function. Describe the ways in which nutrients and water are transported within animals, including humans.	Recognise that light appears to travel 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.	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. 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 (inherited and acquired characteristics). Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.			
	UKS2 Working Scientifically	 Planning different t Taking measurement Recording data and Using test results to Reporting and press forms such as displated Identifying scientific 	ypes of scientific enquiries to nts, using a range of scientific results of increasing complex o make predictions to set up f enting findings from enquiries ays and other presentations. c evidence that has been used read & spell scientific vocabul	answer questions, including equipment, with increasing a kity using scientific diagrams a urther comparative and fair to s, including conclusions, causa d to support or refute ideas of lary correctly, use wide range	methods, processes and skills through the teaching of the programme of study content: er questions, including recognising and controlling variables where necessary. oment, with increasing accuracy and precision, taking repeat readings when appropriate. ing scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs. r comparative and fair tests. uding conclusions, causal relationships and explanations of and degree of trust in results, in oral and written apport or refute ideas or arguments. <i>Trectly, use wide range of secondary sources, group and classify, observe changes over different periods of</i> <i>s, relationships and interactions more systematically. Recognise scientific ideas change & evolve over time.</i>			

Most POS are in NC year groups. All are within phases and marked with * when taught in a different year group.