

YEAR 1						
Key stage 1 – National curriculum units Scheme of work – Scholastic	Animals including humans	Autumn and Winter	Everyday materials	Winter and spring	Plants	Spring and summer
National curriculum	Parts of body, diet Common animals	Shadows, weather/rain Seasonal change	Objects and materials	Day length Weather/cold Seasonal change	Wild garden	Day length Weather/warm Seasonal change
Working scientifically: Questioning Asking simple questions and recognising that they can be answered in different ways	✓	✓	√	✓	✓	✓
Working scientifically: Observing Observing closely, using simple equipment	✓	✓	✓	✓	✓	✓
Working scientifically: Practical Performing simple tests						
Working scientifically: Classifying Identifying and classifying	✓	✓	✓	✓	✓	✓
Working scientifically: Reporting on findings Using their observations and ideas to suggest answers to questions						
Working scientifically: Gathering and recording data Gathering and recording data to help in answering questions						
Plants Identify and name a variety of common wild and garden plants, including deciduous and evergreen trees					✓	
Plants Identify and describe the basic structure of a variety of common flowering plants, including trees.					✓	
Animals including humans Animals - Identify and name a variety of common animals including fish, amphibians, reptiles, birds and mammals	✓					
Animals including humans Identify and name a variety of common animals that are carnivores, herbivores and omnivores	✓					
Animals including humans Describe and compare the structure of a variety of common animals (fish, amphibians, reptiles, birds and mammals, including pets)	√					
Animals including humans Identify, name, draw and label the basic parts of the human body and say which part of the body is associated with each sense.	√					
Materials Distinguish between an object and the material from which it is made			✓			
Materials Identify and name a variety of everyday materials, including wood, plastic, glass, metal, water, and rock			√			
Materials Describe the simple physical properties of a variety of everyday materials			✓			
Materials Compare and group together a variety of everyday materials on the basis of their simple physical properties			√			
Seasonal changes Observe changes across the four seasons		✓		✓		✓
Seasonal changes Observe and describe weather associated with the seasons and how day length varies		✓		✓		✓



TEAR 2						
Key stage 1 – National curriculum units Scheme of work – Scholastic	Habitats	Everyday materials	Living Things	Plants	Everyday materials	Animals including humans
National curriculum	Habitats	Materials for different uses	Living, dead, never alive	Seeds and bulbs	Properties and changes Push, pull and twist	Growth, survival and Health
Working scientifically: Questioning Asking simple questions and recognising that they can be answered in different ways	√	✓	√			
in different ways Working scientifically: Observing Observing closely, using simple equipment	✓	-	✓	✓	√	✓
Working scientifically: Practical Performing simple tests	•	· ·	<i>'</i>	✓	√	•
Working scientifically: Classifying Identifying and classifying	√	·	<i>'</i>	· ·	· ·	✓
Working scientifically: Reporting on findings Using their observations and ideas to suggest answers to questions	✓	<i>✓</i>	✓	✓	*	✓
Working scientifically: Gathering and recording data Gathering and recording data to help in answering questions	√	✓	✓	✓	✓	✓
Plants / Animals including humans Explore and compare the differences between things that are living, dead, and things that have never been alive			✓			
Plants / Animals including humans 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	√					
Plants / Animals including humans Identify and name a variety of plants and animals in their habitats, including micro-habitats	√					
Plants / Animals including humans 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	√					
Plants Observe and describe how seeds and bulbs grow into mature plants				✓		
Plants Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy				✓		
Animals including humans Notice that animals, including humans, have offspring which grow into adult						✓
Animals including humans Find out about and describe the basic needs of animals, including humans, for survival (water, food and air)						✓
Animals including humans Describe the importance for humans of exercise, eating the right amounts of different types of food, and hygiene						✓
Materials Identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses		✓			✓	

Materials Find out how the shapes of solid objects made from some materials can be changed by	✓	✓
squashing, bending, twisting and stretching		
Materials Find out about people who have developed useful new materials (in scholastic)	✓	✓



YE.	AR 3					
Key stage 1 – National curriculum units Scheme of work – Scholastic	Forces and magnets	Animals, including humans	Light	Plants	Rocks	Animals, including humans
National curriculum	Movement and magnets	Food and diet	Shadows and reflections	Parts of plants and growth	Rock types, fossils and soils	Skeletons and muscles
Working scientifically: Questioning Asking relevant questions and using different types of scientific enquiries to answer them	√	√	✓		√	✓
Working scientifically: Practical Setting up simple practical enquiries, comparative and fair tests	✓	✓	✓	✓	✓	✓
Working scientifically: Observing Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers	√	√	√			
Working scientifically: Gathering and recording data Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions	√	√	√	√	√	~
Working scientifically: Reporting on findings language, drawings, labelled diagrams, keys, bar charts, and tables	✓	✓	√	✓	√	
Working scientifically: Reporting on findings Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	✓	✓		✓	√	✓
Working scientifically: Gathering and recording data Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions			√	√		~
Working scientifically: Comparing and contrasting Identifying differences, similarities or changes related to simple scientific ideas and processes	√		✓	✓	√	~
Working scientifically: Using scientific evidence Using straightforward scientific evidence to answer questions or to support their findings	√	√	✓	√		✓
Plants Identify and describe the functions of different parts of flowering plants: roots, stem/trunk, leaves and flowers				√		
Plants 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				√		
Plants Investigate the way in which water is transported within plants / Beech Hyde planning						
Plants Explore the part that flowers play in the life cycle of flowering plants, including pollination, seed formation and seed dispersal				✓		
Animals including humans 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 Identify that humans and some other animals have skeletons and				✓
muscles for support, protection and movement				
Rocks Compare and group together different kinds of rocks on the basis of their appearance and			✓	•
simple physical properties				
Rocks Describe in simple terms how fossils are formed when things that have lived are trapped			✓	,
within rock				
Rocks 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 absence of light		✓		
Light Notice that light is reflected from surfaces		✓		
Light Recognise that light from the sun can be dangerous and that there are ways to protect		✓		
their eyes				
Light Recognise that shadows are formed when the light from a light source is blocked by a solid		✓		
object				
Light Find patterns in the way that the size of shadows change		✓		
Forces Compare how things move on different surfaces / Beech Hyde planning				
Forces Notice that some forces need contact between two objects, but magnetic forces can act	✓			
at a distance				
Forces Observe how magnets attract or repel each other and attract some materials and not	✓			
others				
Forces 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				
Forces Describe magnets as having two poles / Beech Hyde planning				
Forces Predict whether two magnets will attract or repel each other, depending on which poles				
are facing. / Beech Hyde planning				

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	TEAR 4					
Key stage 1 – National curriculum units	AUT 1	AUT 2	Spring 2	Summer 1	Spring 1	Summer 2
Scheme of work – Scholastic National curriculum	Living Things (1)	Animals, including humans (2)	Sound (4)	Animals, including humans (5)	States of matter (3)	Electricity (6)
	Classification and human effects on the environment	Digestion and teeth	Vibrations and features	Food chains	Solid, liquid, gas	Circuits and components
Working scientifically: Questioning Asking relevant questions and using different types of	✓	✓	✓	✓	✓	✓
scientific enquiries to answer them						
Working scientifically: Practical Setting up simple practical enquiries, comparative and fair tests		✓	√	✓	✓	√
Working scientifically: Observing Making systematic and careful observations and, where appropriate, taking accurate measurements using standard units, using a range of equipment, including thermometers and data loggers			✓		√	
Working scientifically: Gathering and recording data Gathering, recording, classifying and presenting data in a variety of ways to help in answering questions	√	√	√	√	✓	√
Working scientifically: Reporting on findings Recording findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables	√	√	✓	√	✓	√
Working scientifically: Reporting on findings Reporting on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions	√	√		√		√
Working scientifically: Reporting on findings Using results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions		√	√	√	✓	√
Working scientifically: Comparing and contrasting Identifying differences, similarities or changes related to simple scientific ideas and processes	√		✓		✓	√
Working scientifically: using scientific evidence to answer questions or to support their findings				√	✓	
Plants / Animals including humans Recognise that living things can be grouped in a variety of ways / Beech Hyde planning						
Plants / Animals including humans Explore and use classification keys to help group, identify and name a variety of living things in their local and wider environment	✓					
Plants / Animals including humans Recognise that environments can change and that this can sometimes pose dangers to living things.	√					

Animals including humans Describe the simple functions of the basic parts of the	✓				
digestive system in humans					
Animals including humans Identify the different types of teeth in humans and their	✓				
simple functions					
Plants / Animals including humans Construct and interpret a variety of food chains,			✓		
identifying producers, predators and prey					
Materials Compare and group materials together, according to whether they are solids,				✓	
liquids or gases					
Materials 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)					
Materials Identify the part played by evaporation and condensation in the water cycle				✓	
and associate the rate of evaporation with temperature					
Materials Identify how sounds are made, associating some of them with something		√			
vibrating					
Materials Recognise that vibrations from sounds travel through a medium to the ear /					
Beech Hyde planning					
Sound Find patterns between the pitch of a sound and features of the object that		✓			
produced it					
Sound Find patterns between the volume of a sound and the strength of the vibrations		√			
that produced it					
Sound Recognise that sounds get fainter as the distance from the sound source increases		✓			
Electricity Identify common appliances that run on electricity					✓
Electricity Construct a simple series electrical circuit, identifying and naming its basic					✓
parts, including cells, wires, bulbs, switches and buzzers					
Electricity 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					
Electricity Recognise that a switch opens and closes a circuit and associate this with					✓
whether or not a lamp lights in a simple series circuit					
Electricity Recognise some common conductors and insulators, and associate metals with					✓
being good conductors					

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YEAR 5						
Key stage 1 – National curriculum units Scheme of work – Scholastic	Animals, including humans	Properties of materials	Earth and Space	Living things	Properties of materials	Forces
National curriculum	Growth, development and puberty	Dissolving and separation	Solar system And movement	Life cycle sand reproduction of plants	Reactions	Gravity, friction and machines
Working scientifically: Questioning Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	√	✓	✓	✓	✓	✓
Working scientifically: Gathering and recording data Taking measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate		✓	√		✓	✓
Working scientifically: Gathering and recording data Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	✓	✓	~	✓	✓	✓
Working scientifically: Practical Using test results to make predictions to set up further comparative and fair tests		√	√		~	✓
Working scientifically: Reporting on findings Reporting and presenting 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		√	*	✓	√	
Working scientifically: Using scientific evidence Identifying scientific evidence that has been used to support or refute ideas or arguments	✓		✓	✓	✓	
Animals including humans Describe the differences in the life cycles of a mammal, an amphibian, an insect and a bird	✓					
Animals including humans Describe the life process of reproduction in some plants and animals				✓		
Animals including humans Describe the changes as humans develop to old age	✓					
Materials 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		√				
Materials Know that some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution / Beech Hyde planning						
Materials Use knowledge of solids, liquids and gases to decide how mixtures might be separated, including through filtering, sieving and evaporating		~				
Materials Give reasons, based on evidence from comparative and fair tests, for the particular uses of everyday materials, including metals, wood and plastic		√				

Materials Demonstrate that dissolving, mixing and changes of state are reversible changes	✓			
Materials 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				
Earth and Space Describe the movement of the Moon relative to the Earth		✓		
Earth and Space Describe the Sun, Earth and Moon as approximately spherical bodies		✓		
Earth and Space Use the idea of the Earth's rotation to explain day and night and the apparent		✓		
movement of the sun across the sky				
Earth and Space Explain that unsupported objects fall towards the Earth because of the force of gravity				✓
acting between the Earth and the falling object				
Forces Identify the effects of air resistance, water resistance and friction, that act between moving				✓
surfaces				
Forces Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to				✓
have a greater effect				



YFAR 6

	YE	AR 6					
Key stage 1 – National curriculum units Scheme of work – Scholastic	Living things	Evolution and inheritance	Animals , including humans	Light	Electricity	Evolution and Inheritance	Animals, including humans
National curriculum	Classifications: plants, animals and microbes	Evolution, and adaption	Circulation	How light travels	Changing circuits and symbols	inheritance	health
Working scientifically: Questioning Planning different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary	√	✓	√		✓	✓	\
Working scientifically: Gathering and recording data measurements, using a range of scientific equipment, with increasing accuracy and precision, taking repeat readings when appropriate	✓		√	√	✓	√	√
Working scientifically: Gathering and recording data Recording data and results of increasing complexity using scientific diagrams and labels, classification keys, tables, scatter graphs, bar and line graphs	✓		√	√		√	√
Working scientifically: Practical Using test results to make predictions to set up further comparative and fair tests		√			√		√
Working scientifically: Reporting on findings Reporting and presenting 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		√		√	√		√
Working scientifically: Using scientific evidence Identifying scientific evidence that has been used to support or refute ideas or arguments		√		✓		✓	√
Plants / Animals including humans 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	~						
Plants Give reasons for classifying plants and animals based on specific characteristics / Beech Hyde planning							
Animals including humans Identify and name the main parts of the human circulatory system, and describe the functions of the heart, blood vessels and blood			√				
Animals including humans Recognise the impact of diet, exercise, drugs and lifestyle on the way their bodies function							√
Animals including humans Describe the ways in which nutrients and water are transported within animals, including humans / Beech Hyde planning							

Animals including humans Recognise that living things have changed over	✓			✓	
time and that fossils provide information about living things that inhabited					
the Earth millions of years ago					
Animals including humans Recognise that living things produce offspring of	✓			✓	
the same kind, but normally offspring vary and are not identical to their					
parents					
Animals including humans Identify how animals and plants are adapted to	✓			✓	
suit their environment in different ways and that adaptation may lead to					
evolution					
Light Recognise that light appears to travel in straight lines		✓			
Light 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					
Light 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					
Light Use the idea that light travels in straight lines to explain why shadows		✓			
have the same shape as the objects that cast them					
Electricity Associate the brightness of a lamp or the volume of a buzzer			✓		
with the number and voltage of cells used in the circuit					
Electricity 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					
Electricity Use recognised symbols when representing a simple circuit in a			✓		
diagram					

Subject: Science Encourage pupils to use the correct scientific vocabulary to explain their ideas Nurturing an interest in scientific topics / concepts Pupils have opportunities and time to extend, explore and question ideas and theories In practical lessons, opportunities to plan and carry out their own investigations to explore scientific questions Learners are prepared for the next stage of their learning by understanding the fundamental scientific principles of each unit Opportunities are provided for pupils to pre-learn scientific vocabulary Opportunities to work in different groupings / pairs for peer support Resilient tortoise Understanding that predictions may not be accurate Scientists discover by failure Independent rhino Promoting confidence of have their own Ideas and processes Risk-taking penguin Develop the drive to discover more about myself and the world around me. Encourage the pupils to confidently communicate their scientific ideas. Reflective owl Reflecting on the results of an experiment and making adjustments during investigations to appreciate the progress you have made. Pupils make links between their knowledge about the world and their scientific understanding. Team Bee When working in teams, encouraging pupils to give each member of the team an identified role to carry out the group work.	SRIMARY SCALO	Curriculum Drivers
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out the group work.		
To be able to work in a group value knowledge and presiding aboring responsibility and begins abound		
To be able to work in a group using knowledge and precision, sharing responsibility and having shared expectations.		

Through scientific enquiry, encouraging pupils to ask scientific questions.

Encouraging pupils to be curious and open minded and question known concepts.

Giving pupils the opportunity to learn from a wide range of experiences e.g. peers, teachers, trips, tv etc.

Curious and creative chameleon