



		KSI		KS2			
	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	<b>Asking Questions</b>						
		Ask simple questions and recognise that they can be answered in different ways.		Ask relevant questions and use different types of scientific enquiries to answer them  Set up simple practical enquiries, comparative and fair tests.		Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.	
	<b>Measuring and Recording</b>						
		Observe closely, using simple equipment. Perform simple tests. Gather and record data to help in answering questions.		Make systematic and careful observations and, where appropriate, take accurate measurements using standard units.  Use a range of equipment, including thermometers and data loggers.  Record findings using simple scientific language, drawings, labelled diagrams, keys, bar charts, and tables.  Gather, record, classify and present data in a variety of ways to help in answering questions.		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.	
	<b>Concluding</b>						
		Identify and classify.  Use their observations and ideas to suggest answers to questions.		Identify differences, similarities or changes related to simple scientific ideas and processes.  Report on findings from enquiries, including oral and written explanations, displays or presentations of results and conclusions.  Use straightforward scientific evidence to answer questions or to support their		Identify scientific evidence that has been used to support or refute ideas or arguments.  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.	



				findings.			
	<b>Evaluating</b>						
				Use results to draw simple conclusions, make predictions for new values, suggest improvements and raise further questions.		Use test results to make predictions to set up further comparative and fair tests.	
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>Animals including Humans</b>	<p><b>Understanding the world:</b> <b>Early Learning Goal:</b> They make observations of animals and plants and explain why some things occur, and talk about changes.</p> <p><b>Physical Development:</b> <b>Early Learning Goal:</b> They know the importance for good health of physical exercise and a healthy diet, and talk about ways to keep healthy and safe.</p>	<p>What are the five senses and how do we use these to find out about the world?</p> <p>Explain their ideas as responses to an issue.</p> <p>Identify, name common and compare animals. (fish, amphibians, reptiles, birds and mammals)</p> <p>Identify and name common animals (carnivores, herbivores and omnivores)</p>	<p>How do humans keep healthy? (exercise, food, hygiene)</p> <p>What are the basic needs for survival? (water, food, air)</p>	<p>Animals including humans need the right amount of nutrition</p> <p>Animals including humans get their nutrition from what they eat.</p> <p>Why do we have a skeleton and what does it protect?</p> <p>How do animals move their muscles?</p> <p>How do muscles work?</p>	<p>What are the simple functions of the basic parts of the digestive system in humans?</p> <p>What are the different types of teeth in a human and what are their simple functions.</p> <p>Construct and interpret a variety of food chains.</p> <p>Identify producers, predators and prey.</p>	<p>What are the changes as humans develop to old age?</p>	<p>What are the main parts of the human circulatory system?</p> <p>What are the functions of the heart, blood vessels and blood?</p> <p>What is the impact of diet, exercise, drugs and lifestyle on the way the body functions?</p> <p>What ways are nutrients and water transported within animals, including humans?</p>



<b>Vocabulary</b>	Plant, Animal.	Senses Fish, Reptiles, Mammals, Birds, Amphibians Herbivore, Omnivore, Carnivore, Wings, Beak.	Survival, Water, Air, Food, Adult, Baby, Offspring, Kitten, Calf, Puppy, Exercise, Hygiene.	Nutrition Movement, Muscles, Bones, Skull, Nutrition, Skeleton.	Mouth, Tongue, Teeth, Oesophagus, Stomach, Small Intestine, Large Intestine, Herbivore, Carnivore, Canine, Incisor, Molar.	Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, Elderly, Growth, Development, Puberty.	Circulatory, Heart, Blood Vessels, Veins, Arteries, Oxygenated, Deoxygenated, Valve, Exercise, Respiration.
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>Plants</b>	<p><b>Understanding the world: Early Learning Goal:</b> They make observations of animals and plants and explain why some things occur, and talk about changes.</p>	<p>Can you name the parts of a flowering plant and trees?</p> <p>What do plants need to grow well?</p> <p>What plants can you find by our school?</p> <p>Can you identify and name common wild and garden plants? (deciduous and evergreen trees).</p>	<p>How do seeds and bulbs grow into mature plants?</p> <p>Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy.</p>	<p>Explore the part the flower plays in the life cycle of flowering plants including pollination, seed formation and seed dispersal.</p> <p>How is water transported through the plant?</p> <p>What are the requirements of plants for life and growth? (air, light, water, nutrients from soil and room to grow)</p> <p>How can this vary from plant to plant?</p> <p>What is the job of roots, leaves and stems/trunk and flowers?</p>			



<b>Vocabulary</b>	Plant, Flower, Grass, Tree.	Deciduous, Evergreen trees, Leaves, Flowers, Petals, Fruit, Roots, Bulb.	Seed, Trunk, Branches, Stem Seeds, Bulbs, Water, Light, Temperature, Growth.	Air, Light, Water, Nutrients, Soil, Reproduction, Transportation, Dispersal, Pollination, Flower.			
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>Living Things and their Habitats</b>	<p><b>Understanding the world: Early Learning Goal:</b> They make observations of animals and plants and explain why some things occur, and talk about changes.</p>		<p>Identify/name plants and animals including microhabitats.</p> <p>How can we sort living, dead and never been alive things?</p> <p>Describe how animals get food – food chain.</p> <p>What are the similarities and differences between local habitats and how does it affect the animals and plants that live there?</p>		<p>Recognise that living things can be grouped in a variety of ways.</p> <p>How do I use a key to identify local plants and animals?</p> <p>Understand that environments can change and that this can sometimes pose dangers to living things.</p> <p>What ways can we protect living things and the environment?</p>	<p>What is the difference between the life cycles of a mammal, an amphibian, and insect and a bird?</p> <p>Describe the life process of reproduction in some plants and animals.</p>	<p>Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and differences including micro-organisms, planets and animals.</p> <p>What are the reasons for classifying plants and animals? (Specific characteristics).</p>



Vocabulary	Plant, Animal, Home.		Living, Dead, Habitat, Energy, Food chain, Predator, Prey, Woodland, Pond, Desert.		Vertebrates, Fish, Amphibians, Reptiles, Birds, Mammals, Invertebrates, Snails, Slugs, Worms, Spiders, Insects, Environment, Habitats.	Mammal, Reproduction, Insect, Amphibian, Bird, Offspring.	Classification, Vertebrates, Invertebrates, Microorganisms, Amphibians, Reptiles, Mammals, Insects.
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Seasonal Change	<b>Understanding the world ELG:</b> They make observations of plants and explain why some things occur, and talk about changes.	Observe changes across the four seasons.  Observe and describe weather associated with the seasons  Observe and describe how the day length varies based on the season.					
Vocabulary	Weather rain sunshine snow cloud.	Summer, Spring, Autumn, Winter, Sun, Day, Moon, Night, Light, Dark.					
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Evolution and							How do living things



Inheritance							<p>change over time?</p> <p>What information does a fossil provide? (information about living things that inhabited the Earth millions of years ago)</p> <p>Living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents. How do animals and plants adapt to suit their environment?</p> <p>How does adaptation lead to evolution?</p>
Vocabulary							Fossils, Adaptation, Evolution, Characteristics, Reproduction, Genetics.
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Materials	<p><b>Understanding the world ELG:</b> The world Children know about similarities and differences in</p>	<p>Distinguish between an object and the material from which it is made.</p> <p>Identify and name a</p>	<p>Identify and compare the suitability of a variety of everyday materials including wood, metal, plastic,</p>			<p>Compare and group together everyday materials on the basis of the properties including hardness, solubility,</p>	



	<p>relation to places, objects, materials and living things.</p>	<p>variety of everyday materials including wood, plastic, glass, metal, water and rock.</p> <p>To describe the simple physical properties of a variety of everyday materials</p> <p>Compare and group together a variety of everyday materials based on their simple properties.</p>	<p>glass, brick, rock, paper and cardboard for particular uses.</p> <p>Find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching.</p>			<p>transparency, conductivity (electricity and thermal) and response to magnets.</p> <p>Some materials will dissolve in liquid to form a solution, and describe how to recover a substance from a solution. Separate solids, liquids and gases through filtering, sieving and evaporating</p> <p>Give reasons, based on evidence from comparative and fair tests, for the particular use of everyday materials including wood, plastic and metals.</p> <p>Demonstrate that dissolving, mixing and changes of state are reversible changes.</p> <p>Some changes result in the formation of new materials.</p> <p>Changes associated with burning and the</p>	
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						action of acid on bicarbonate of soda are irreversible.	
<b>Vocabulary</b>	Sand, Playdough, Paint, Mix, Soft, Hard.	Wood, Plastic, Glass, Paper, Water, Metal, Rock, Hard, Soft, Bendy, Rough, Smooth.	Stretchy, Shiny, Dull, Rough, Smooth, Bendy, Waterproof, Absorbent, Opaque, Transparent Brick, Paper, Fabrics, Squashing, Bending, Twisting, Stretching Elastic, Foil.			Hardness, Solubility, Transparency, Conductivity, Magnetic, Filter, Evaporation, Dissolving, Mixing.	
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>States of Matter</b>	<b>Understanding the world ELG:</b> The world Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another.				Compare and group materials together according to whether they are solids, liquids or gases  How do some materials change state when they are heated or cooled?  I can measure or research the temperature at which this change happens in degree Celsius  Identify the part		



					played by evaporation and condensation in the water cycle.  Associate the rate of evaporation with temperature.		
Vocabulary	Hard, Soft, Water, Hot, Cold.				Solid, Liquid, Gas, Evaporation, Condensation, Particles, Temperature, Freezing, Heating		
		<b>KSI</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Forces	<b>Understanding the world ELG:</b> The world Children know about similarities and differences in relation to objects and materials.	How do objects move?  How do you stop or slow down an object?	What are pushes and pulls?  How can we control speed, direction of an object?  How do they effect an object – can pushes and pulls change the shape of objects?	Compare how things move on different surfaces.  Magnets can attract, repel each other and have two poles.  That magnets can attract some materials and not others.  Predict whether two magnets will attract or repel each other based on which poles are facing.		Why do unsupported objects fall towards the Earth (forces of gravity)?  What are the effects of air resistance, water resistance and friction on moving surfaces?  That some mechanicalness, including levers, pulleys and gears, allow a smaller force to have a greater effect.	



				Compare and group together a variety of everyday materials on the basis of whether they are attracted to a magnet.  Identify some magnetic materials.			
Vocabulary	Stop, Start.	Stop, Start, Roll, Move Slow Fast.	Push, Pull, Speed, Direction Force.	Magnetic, Force, Contact, Attract, Repel, Friction, Poles, Push, Pull.		Air resistance, Water resistance, Friction, Gravity, Newton, Gears, Pulleys.	
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Rocks	<p><b>Understanding the world ELG:</b> The world Children know about similarities and differences in relation to places, objects, materials and living things.</p> <p>They talk about the features of their own immediate environment and how environments might vary from</p>		<p>Compare and group together different kinds of rocks based on appearance and simple physical properties.</p> <p>Describe in simple terms how fossils are formed when things have lived and then are trapped within rock.</p> <p>Recognise that soils are made from rocks and organic matter.</p>				



	one another.						
<b>Vocabulary</b>	Hard, Smooth, Rough.		Fossils, Soils, Sandstone, Granite, Marble, Pumice, Crystals, Absorbent.				
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
<b>Electricity</b>	<p><b>Understanding the world ELG:</b> The world Children know about similarities and differences in relation to places, objects, materials and living things. They talk about the features of their own immediate environment and how environments might vary from one another.</p>				<p>What common appliances run on electricity?</p> <p>Construct a simple series circuit</p> <p>Identify the different parts to a circuit including cell, wires, bulbs, switches and buzzers</p> <p>Identify whether 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.</p> <p>How does a switch work and will this light the lamp in the simple series circuit?</p> <p>What are the</p>		<p>How does the number and voltage of cells effect the brightness of a lamp or the volume of a buzzer?</p> <p>Compare and give reasons for variations in how components function including brightness of bulb, loudness of buzzer, on/off position of switches.</p> <p>Recognise symbols when representing a simple circuit in a diagram.</p>



					common conductors and isolators?  Are metals good conductors?		
Vocabulary	Bright, Dark.				Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators.		Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators, Amps, Volts, Cell.
		<b>KSI</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Earth and Space	<p><b>Understanding the world ELG:</b> The world Children know about similarities and differences in relation to places, objects, materials and living things.</p> <p>They talk about the features of their own immediate environment and how</p>					<p>Describe the movement of the earth and other planets, relative to the Sun in the solar system</p> <p>Describe the movement of the Moon relative to the Earth.</p> <p>Describe the Sun, Earth and Moon as approximately spherical bodies.</p>	



	environments might vary from one another.					Why does the sun seem to move across the sky, rising in the East and setting in the West?  Why do we have day time and night time?	
Vocabulary	The World, Sky, Space, Stars, Planets.					Earth, Sun, Moon, Axis, Rotation, Day, Night, Phases of the Moon, Star, Constellation, Solar System.	
		<b>KSI</b>		<b>KS2</b>			
	<b>EYFS</b>	<b>Year 1</b>	<b>Year 2</b>	<b>Year 3</b>	<b>Year 4</b>	<b>Year 5</b>	<b>Year 6</b>
Sound	<p><b>Understanding the world ELG:</b> The world Children know about.</p> <p>Similarities and differences in relation to places, objects, materials and living things.</p> <p>They talk about the features of their own</p>				<p>How are sounds made? (vibration).</p> <p>Vibrations travel through a medium to the ear.</p> <p>Find patterns between the volume of a sound and the strength of the vibration.</p> <p>What happens to sound as the distance</p>		



	immediate environment and how environments might vary from one another.				from the sound source increases?		
Vocabulary	Quiet, Loud.				Volume, Vibration, Wave, Pitch, Tone,		
		<b>KS1</b>		<b>KS2</b>			
	<b>EYFS</b>	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Light	<p><b>Understanding the world ELG:</b> The world Children know about similarities and differences in relation to places, objects, materials and living things.</p> <p>They talk about the features of their own immediate environment and how environments might vary from one another.</p>			<p>Recognise the need for light to see things and that dark is the absence of light?</p> <p>Light is reflected from surfaces</p> <p>Light from the sun can be dangerous and that there are ways to protect your eyes.</p> <p>Shadows are formed when the light from light sources is blocked by a solid object.</p>			<p>What direction does light travel?</p> <p>Objects are seen because they give out or reflect light into the eye.</p> <p>How do we see things? (light travels from light sources to our eyes or from light sources to objects then to our eyes).</p> <p>Understand that light travels in straight lines which explain why shadows have the same shape as the object that cast them.</p>
Vocabulary	Bright, Dark.			Light, Shadows, Mirror, Reflective,			Refraction, Reflection, Light, Spectrum,



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Science Curriculum Progression



				Dark, Reflection.			Rainbow, Colour.
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