

Keevil CofE Academy Science Vocabulary Progression

Theme		EYFS	KS1		Lower KS2		Upper KS2	
		Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
BIOLOGY								
Humans	PRIOR LEARNING		Human, animal Basic parts of the body eg. arm, leg, hand, foot, elbow		Human, animal Basic parts of the body eg. arm, leg, hand, foot, elbow Sense, eye, ear, nose, mouth, finger Offspring, survival, water, food, air Health, exercise, hygiene		Human, animal Basic parts of the body eg. arm, leg, hand, foot, elbow Sense, eye, ear, nose, mouth, finger Offspring, survival, water, food, air Health, exercise, hygiene Balanced diet, nutrients Skeleton, support, movement, protection, muscle, contract, relax Teeth, incisor, molar, canine Digestive system	
	NEW LEARNING	Human, animal Basic parts of the body eg. arm, leg, hand, foot, elbow	Sense, eye, ear, nose, mouth, finger Adult, young, Alive, living, not alive survival, water, food, air Health, exercise, hygiene		Balanced diet, nutrients Skeleton, support, movement, protection, muscle, contract, relax Teeth, incisor, molar, canine Digestive system		Puberty Circulatory system, heart, blood, blood vessels, organ Lifestyle, alcohol, smoking	
	EXTENSION	<i>Other parts of the body eg. ankle, knee, hip, elbow</i>	<i>More details about how sense organs work Reproduction, stages of growth</i>		<i>Carbohydrate, protein, fat, vitamin, minerals Stomach, oesophagus, liver, intestine Names of specific bones and muscles</i>		<i>oxygenated, deoxygenated, artery, vein ventricle, atrium, valve plasma, platelets, cells</i>	
Plants	PRIOR LEARNING		Plant, seed, roots, shoots, grow		Plant, seed, roots, shoots, grow Deciduous, evergreen Wild, garden Leaves, flower, petal, stem, trunk, branches, bulb, fruit Growth, water, light, temperature		Plant, seed, roots, shoots, grow Deciduous, evergreen Wild, garden Leaves, flower, petal, stem, trunk, branches, bulb, fruit Growth, water, light, temperature Function Water transport Pollination, seed formation, seed dispersal	
	NEW LEARNING	Plant, seed, roots, shoots, grow	Deciduous, evergreen Wild, garden Leaves, flower, petal, stem, trunk, branches, bulb, fruit Growth, water, light, temperature		Function Water transport Pollination, seed formation, seed dispersal			
	EXTENSION	<i>Names of specific plants Names of other parts of plants eg. flower, stem, leaves, trunk etc</i>	<i>Weed Names of specific plants germination</i>		<i>Fertilise, fertilisation, ovary, stigma, style, sepal, stamen, pollen Terms for different methods of seed dispersal</i>			

Living Things	PRIOR LEARNING		Food, place to live	Food, place to live Fish, amphibians, reptiles, birds, mammals Carnivore, herbivore, omnivore Habitat, micro-habitat Food chain, source of food	Food, place to live Fish, amphibians, reptiles, birds, mammals Carnivore, herbivore, omnivore Habitat, micro-habitat Food chain, source of food Classification, keys Environment, environmental change, consequence Producer, predator, prey
	NEW LEARNING	Food, place to live	Fish, amphibians, reptiles, birds, mammals Carnivore, herbivore, omnivore Habitat, micro-habitat Food chain, source of food	Classification, keys Environment, environmental change, consequence Producer, predator, prey	Life cycle, reproduction Micro-organism
	EXTENSION	<i>Describe differences between animals and give reasons</i>	<i>A range of examples of animals in different classification groups and details about common features Examples of different habitats and the organisms that live within them MRS GREN (movement, reproduction, sensitivity, growth, respiration, excretion, nutrition)</i>	<i>Vertebrate, invertebrate Names of classification groups for plants eg. grasses, ferns, mosses</i>	<i>Sexual and asexual reproduction Names of classification groups covering all types of organisms</i>
Evolution	PRIOR LEARNING		Dinosaur	Dinosaur	Dinosaur Fossil, evolution
	NEW LEARNING	Dinosaur		Fossil, evolution	Inheritance, adaptation
	EXTENSION	<i>Extinct, or words that describe this concept</i>		<i>Examples of different types of fossil, explanation about the evolutionary evidence that can be gained from fossils.</i>	<i>Genes</i>

PHYSICS

Theme		EYFS	KS1		Lower KS2		Upper KS2	
		Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Forces	PRIOR LEARNING		Magnet, sticky		Magnet, sticky Force, push, pull		Magnet, sticky Force, push, pull Friction, contact, surface Magnet, attract, repel, poles, magnetic/non-magnetic	
	NEW LEARNING	Magnet, sticky	Force, push, pull		Friction, contact, surface Magnet, attract, repel, poles, magnetic/non-magnetic		Gravity, air resistance, water resistance Lever, pulley, gear	
	EXTENSION	<i>Describe materials that will 'stick' to magnets and those that won't</i>	<i>Stretch, twist, compression</i>		<i>Weight, Newton</i>		<i>Acceleration/deceleration fulcrum</i>	
Electricity	PRIOR LEARNING				Electricity, mains, battery Circuit, wire, bulb, switch		Electricity, mains, battery Circuit, wire, bulb, switch Complete circuit Buzzer, motor, cell Conductor, insulator	
	NEW LEARNING		Electricity, mains, battery Circuit, wire, bulb, switch		Complete circuit Buzzer, motor, cell Conductor, insulator		Voltage Circuit diagram, symbols	
	EXTENSION		<i>Complete circuit Discuss a flow of electricity</i>		<i>Series circuit Current, voltage Describe why some materials are conductors and some are insulators</i>		<i>Volts Current, amps Parallel circuit</i>	
Light	PRIOR LEARNING				Light, dark, light source		Light, dark, light source Reflection, mirror Shadow, transparent, translucent, opaque	
	NEW LEARNING		Light, dark, light source		Reflection, mirror Shadow, transparent, translucent, opaque		Travel, straight lines	
	EXTENSION		<i>Reflection or words that describe this process</i>		<i>Light wave</i>		<i>Refraction</i>	
Sound	PRIOR LEARNING		Sound, loud, quiet		Sound, loud, quiet Volume, distance		Sound, loud, quiet Volume, distance Vibration, travel pitch	
	NEW LEARNING	Sound, loud, quiet	Volume, distance		Vibration, travel pitch			
	EXTENSION	<i>Words that compare sounds eg. louder, quieter</i>	<i>Describe how different objects make sounds</i>		<i>Sound wave</i>			

Earth and Space	PRIOR LEARNING		Winter, Spring, Spring, Summer	Winter, Spring, Spring, Summer Weather, temperature, day length	Winter, Spring, Spring, Summer Weather, temperature, day length
	NEW LEARNING	Winter, Spring, Spring, Summer	Weather, temperature, day length	<i>See words within 'Light' theme</i>	Earth, sun, moon, star Solar system, planet, orbit Rotation
	EXTENSION	<i>Words for describing weather and other features associated with different seasons</i>	<i>Words that explain the movement of the earth to create day and night</i>		<i>Mercury, Venus, Mars, Jupiter, Saturn, Uranus, Neptune, Pluto Earth's axis, tilt, and other words related to the explanation of seasonal changes Waxing, waning and other words related to the moon's cycle</i>

CHEMISTRY								
Theme		EYFS	KS1		Lower KS2		Upper KS2	
		Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Materials	PRIOR LEARNING		Metal, plastic, wood, brick, clay, fabric	Metal, plastic, wood, brick, clay, fabric Object, material Glass, rock Properties, hard/soft, rough/smooth, waterproof Squash, bend, twist, stretch Purpose, suitable Heat, cool	Metal, plastic, wood, brick, clay, fabric Object, material Glass, rock Properties, hard/soft, rough/smooth, waterproof Squash, bend, twist, stretch Purpose, suitable Heat, cool Limestone, granite Soil, organic matter State of matter, solid, liquid, gas Evaporation, condensation, water cycle			
	NEW LEARNING	Metal, plastic, wood, brick, clay, fabric	Object, material Glass, rock Properties, hard/soft, rough/smooth, waterproof Squash, bend, twist, stretch Purpose, suitable Heat, cool	Limestone, granite Soil, organic matter State of matter, solid, liquid, gas Evaporation, condensation, water cycle	Dissolve, soluble, solution Filter, sieve Reversible/irreversible change			
	EXTENSION	<i>Words that describe the properties of materials</i>	<i>Other words to describe materials of properties eg. flexible/rigid, absorbent/not absorbent, transparent/opaque Words describing the process by which man-made materials are manufactured.</i>	<i>Sedimentary, metamorphic Words that describe the rock cycle eg. erosion, deposition Particles and words that describe the arrangement and movement of particles in solids, liquids and gases</i>	<i>Physical, chemical</i>			

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Theme		EYFS	KS1	Lower KS2	Upper KS2
Working Scientifically	PRIOR LEARNING		Sort, group, measure	Sort, group, measure Question, answer Observe Test Identify, classify Data	Sort, group, measure Question, answer Observe Test Identify, classify Data Comparative test, Fair test Gather, record, present Diagram, bar chart, table Results, conclusion, prediction Evidence
	NEW LEARNING	Sort, group, measure	Question, answer Observe Test Identify, classify Data	Comparative test, Fair test Gather, record, present Diagram, bar chart, table Results, conclusion, prediction Evidence	Variables, control Accuracy, precision Scatter graph, line graph Causal relationship Support/refute
	EXTENSION	<i>Similarities, differences</i>	<i>Enquiry Practical, research Words that describe different types of test</i>	<i>Variable Accuracy</i>	<i>Anomaly Justify</i>