

Vocabulary Progression Grid

Subject: Science

	EYFS	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
Biology Based Knowledge	Animals						
	Animal Parts of an animal Pets: with a focus on dogs Birds: with a focus on owls Sea creatures: with a focus on sharks Mini-beasts Life cycle of birds Mini-beast life cycles	Animal groups: Fish Amphibian Reptile Bird Mammal Pets Carnivore Herbivore Omnivore Animal structure	Mother and baby animal names Offspring Adult Animal needs: Water Air Food	Animal dietary needs Classes of nutrients Carbohydrates Fats Fibre Minerals Proteins Vitamins Water Skeletal animals: Support Movement Protection	Animal food chains Producer Predator Prey	Animal reproduction process Animal life cycles (including contrasting mammals, amphibians, insects and birds)	Transportation of nutrients and water within animals: Blood Blood vessels Sweat Urination Animal classification: Vertebrate Invertebrate
	Humans						
	Baby Child Boy Girl Man Woman Parent Family	Human Parts of the human body The five senses	Offspring Adult Needs of humans: Exercise Food Hygiene	Human dietary needs Calories Balanced diet Human skeleton Support Movement Protection Muscles	Human digestive system Functions Types of teeth Incisor Canine Molar	Human lifecycle Birth Infancy Childhood Adolescence Puberty Adulthood Elderly	Human circulatory system Body functions: Heart Blood Blood vessels Human lifestyle: Diet Exercise Drugs Transportation of nutrients and water within humans

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Biology Based Knowledge	Plants						
	Seed Plant Grow Change Fruit Vegetable	Trees Evergreen Deciduous Structure of trees: Roots Trunk Bark Branch Leaves Plant Wild plants Garden plants Structure of flowers: Roots Stem/stalk Leaves Petals	Seeds Bulbs Plants Dispersal Pollination Germination Growth Needs of plants: Water Light Temperature	Functions of parts of flowering plants: Roots Stem Trunk Leaves Flowers Needs of plants (air, light, water, nutrients from soil and room to grow) Seed Seedling Bud Transportation of water in plants Linked to flowers: Seed pollination Seed dispersal Seed formation		Plant reproduction process: Stamen Stigma Carpel Pistil Pollen Anther Filament	Plant classification: Flowering plants Conifers Ferns Mosses
	Living Things						
	Needs Food Water Exercise		Living things Non-living things Dead Alive Never been alive Animal food chain Food sources Dependence		Living things Identify Classify Group Sort Classification key		Living things Classification Similarities Differences Genus Species Order Family Kingdom
	Habitats						
Homes of birds: Garden Forest Wood Water		Habitat Suited Damp/wet Dry Dark/light		Local environment Wider environment Environmental change Danger		Habitat Suited Environment	

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Biology Based Knowledge	Evolution and Inheritance						
							Offspring Characteristics Vary/variation Inherit/inheritance Suited Environment Adaptation Evolution Fossils Natural selection
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Chemistry Based Knowledge	Rocks						
				Rock Names of common rocks Igneous Sedimentary Metamorphic Hardness Permeable Impermeable Acid Erosion Fossil Ammonite Sediment Minerals Mould Cast Soil Organic matter Particles Silt Micro-organisms			

Chemistry Based Knowledge	EYFS	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
	Materials and States of Matter						
	Material	Material Wood Plastic Glass Metal Water Rock Properties Rough/smooth Flat/bumpy	Material Properties Uses Suitability Waterproof Absorbent Strong/weak Change Squash Bend Twist Stretch		Solid Liquid State Matter Gas Particles Heat Cool Solidify Freeze Melt Temperature Degrees Celsius Evaporation Condensation Water cycle Precipitation Vapour	Hardness Solubility Transpareny Conductivity: Electrical Thermal Magnetic Non-magnetic Dissolve Soluble Solution Insoluble Separate Filter Sieve Evaporate Reversible Irreversible Reaction	
Physics Based Knowledge	EYFS	Year One	Year Two	Year Three	Year Four	Year Five	Year Six
	Weather and Seasons						
		Weather Types of weather Warm Cold Wet/damp Dry Season Names of seasons Changes Patterns Day length Light Dark					

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Physics Based Knowledge	Light and Dark						
				Light Dark Colour Spectrum Refraction Light source Reflect Surface Transparent Translucent Opaque Shadow Patterns Sun safety Dangerous Eye protection			Light Names of light sources Direct/direction Travel Straight Reflect/reflective Transparent Translucent Opaque Block Absorb Refraction Shadow Shape Object Cast
	Sound						
	Sound Noise Loud Quiet Soft				Sound Noise Loud Quiet Silent Vibrations Hear Ear Transmit Medium Sound waves Travel Volume Pitch Frequency Amplitude Fainter Distance Strength		

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Physics Based Knowledge	Forces and Magnets						
				Force Push Pull Surface Contact Magnet Magnetic Non-magnetic Materials Attract Repel Distance Poles North South		Force Mechanism Lever Pulley Gear Transfer Air resistance Water resistance Moving surface Support Fall Earth Gravity Friction Weight	
	Electricity						
					Electricity Electrical Appliance Mains Plug Battery Circuit Construct Switch Wire Crocodile clip Bulb Buzzer Motor Power Connection Energy Flow Current Conductor Insulator		Electricity Electrical circuit Cell Component Battery Circuit Switch Wire Crocodile clip Bulb Buzzer Connection Bright/dim Volume Voltage Symbol Positive Negative Terminal Diagram

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Physics Based Knowledge	Earth and Space						
						Earth Sun Planet Solar system Names of planets Movement Moon Sphere/spherical Rotate/rotation Axis Spin Orbit Day & Night	

Working Scientifically							
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	Asking questions						
	Question words: What How Where When Why	Question Ask Answer	Question Ask Answer Different answers	Relevant questions Scientific enquiry Evidence	Relevant questions Scientific enquiry Evidence Suggestions Further questions New questions	Appropriate types of enquiry	Appropriate types of enquiry Different types of enquiry
	Observing						
	Look See Same Different	Look See Compare Observe Identify Describe	Observations: Relevant observations Close observations Discover/ find out Reasons Explanations	Observations: Systematic Careful Precise Examine Compare Explanations	Observations: Systematic Careful Precise Compare Explanations Categorise	Observations Further observations Conclusions Judgements Evidence Justify Ideas	Further observations Repeat observations Evaluate Degree of trust Evidence Justify Ideas Conclusions Hypotheses
	Setting up tests						
	Try Test Test Ideas Evidence Explore Find out	Comparative test Predict Fair test Predictions Ideas Equipment Measure Measurement Systematic Equipment	Comparative test Fair test Predictions Ideas Equipment Measure Explanations Measurement Plan	Comparative test Fair test Predictions Equipment Measure Explanations Measurement Plan Variable Suggestions Investigation Data logger Thermometer Enquiry	Comparative test Predictions Equipment Review Modify Check accuracy Factor Choose Measurement Variable	Comparative test Predictions Equipment Systematic Plan Measure Select Prediction Most appropriate Variable	Comparative test Predictions Equipment Controlled Analysis Equipment Further tests Precision Accuracy Precise measurements Variable

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Working Scientifically	Recording data						
	Group Sort Objects Compare	Identify Compare Group Collect Gather Sort Data Patterns	Identify Compare Group Gather Classify Sort Data Information Patterns Tally Survey	Gather Classify Present Data Data collection Information Secondary sources Graphs Interpret Patterns	Gather Classify Present Data Compare Identify Collect Evidence Select Analyse Information Secondary sources Conclusions	Information Identify Classify Describe Gather Data Discriminate Distinguish Secondary sources	Information Identify Classify Describe Gather Sort Data Collect Classification key Degree of trust Justify Ideas Conclusions Secondary sources Abstract Concept
	Interpreting and communicating results						
	Think Happen Know	Observe Suggest Answer Questions	Observe/observing Ask Question Predict	Ideas Relationships Functions Interactions Improve Conclusions Similarities Differences Patterns	Interactions Relationships Predict Check Review Predictions Suggestions Improve Conclusions Changes Similarities Differences Patterns	Conclusion Explanation Evidence Justify Ideas Separate Opinion Fact Patterns Prior knowledge Observations Differences	Identify Similarities Differences Changes Scientific ideas Scientific processes Causal relationship Data Poor data Scientific evidence Support Refute Ideas Arguments Abstract ideas

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	Evaluating						
	Show Say/tell Draw Put Stick/glue/paste Sort/order	Find Communicate Record Drawing Label Diagram Information Chart	Find Communicate Record Audience List Bullets Label Chart Sketch Line graph Cause Effect	Find Communicate Record Different audiences Notes Explanations Oral Written Label Sketch Diagram Plot Graph ICT Systematic recording Series of observations	Record Present Analyse Data Notes Drawings Diagrams Labels Keys Tables Bar charts Line graphs Order scientifically Quantitative data Qualitative data	Report Explanations Oral Written Presentations Displays Communicate Scientific language Drawings Diagrams Labels Keys Tables Bar graphs Line graphs Scatter graphs	Report Present Findings Causal relationships Conclusions Explanations Degree of trust in results Scientific language Drawings Diagrams Labels Keys Tables Bar graphs Line graphs Scatter graphs Classification keys