



THE RADSTONE  
Primary School

# Science Vocabulary Framework

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VOCABULARY FRAMEWORK FOR EYFS, KEY STAGE 1 AND KEY STAGE 2





# Working Scientifically

Science							
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working scientifically	Same	Above	Research	Approximate/approximately	Accurate	Spherical	Appropriate
	Different	Answer	Amount	Measure	Comparative	Variable	Accuracy
	Compare	Below	Beyond	Data	Convention	Rotation	Bias
	Look	Centre	Contains	Equivalent	Decrease/increase	Minimum	Circumference
	Watch	Clockwise	Difference	Evidence	Negative numbers	Maximum	Concentric
	See	Close to	Distance	Fact	Origin	Control	Controversy
	notice	Different	Exact	Hypothesis/prediction	Precise	Sparse	Cross-section
		Direction	Exactly	Conclusion/outcome	Reliability	Phenomenon	Diameter
		Distant	Fair test	Relationship	Typical	Perspective	Plausible
		Down	Left	Theory	Unique	Percentage	Proportion
		Equal to	Nearest	Fact	Statistics	Exceptional	Radius
		Event	Property	fair test	Trend	Distribution	Ratio
		Far	Represents	independent variable	Exception	Dependent	Recurring
		Further	Right	dependent variable	Variables	Correlate	
		Group	Scale	method	Controlled variable	Complex	
		Half	Similar	results	Independent variable	Causal	
		Higher	Stands for	conclusion	Dependent variable	Capacity	
		Lower	Strategy	comparative test	Fair/fair test		
		Larger	symmetrical		Factor (variable)		
		Least			Results		
	Less than			Resources			
	More than			Planning			
	Most			Results			
	Near			Conclusion			
	Nearly						
	Newer						
	Old						
	Pattern						
	Point						
	Position						
	Question						
	Roughly						
	Sane						
	Smaller						
	Underneath						
	Up						
	whole						

<b>Presentation</b>		List Notes Sketch Table Tally Template	Block diagram Jottings Pictogram Record Recording Tally chart Venn diagram	Bar graph Carroll diagram Frequency table Findings Tally chart	Communicate Continuous data Discrete data Line graph Plot Time graph	Average Line graph Mode Range Scatter graph	Four quadrants Mean Median Mode Pie charts
<b>Skills</b>	Compare See Watch Hear Smell Touch notice	Explore Feel Guess Hear See Senses Sight Smell Test Touch	Collect Conclude Conclusion Contrast Describe Gather Link Notice Order Predict Rank Result Sort value	dissect observe compare estimate identify organise interpret prove/disprove predict Group/sort	Prediction investigation Evidence Evaluate Categorise Classify Hypothesise summarise	Generalise Refute Verify	Analyse Attribute Characterise Corroborate Determine Discern extrapolate
<b>Equipment</b>	Magnifying glass Mirror Torch Timer	Beaker Clock Egg timer Magnifying glass Metre stick Mirror Ruler Scissors Tape measure Timer	Beaker Equipment Insect viewer Measuring scales Net Pipette Pooter Stop watch Syringe Thermometer Tube Tweezers weight	Magnifying glass/hand lens Pipette Sandpaper Torch Stopwatch Apparatus Measuring cylinder Beaker equipment	Disclosing tablets Forceps Pipette Crocodile clip Buzzer Cell Battery Battery holder Beaker Bulb Bulb holder Wires Switch Motor Tuning fork	Filter Funnel Filter paper Sieve Magnet Newton meter Force meter Beaker Pulleys Levers Gears	

# Biology

Science							
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	Seed Stem Roots Flower Petal Leaf/leaves Soil Water Sun light	Berry Tree Trunk Branch Blossom Leaf/lea ves Buds Bulb Flower Food Fruit Petal Root Seed Soil Stem	Bulb Germinate Function Earth/soil Growth Healthy Mature Nutrients Seed dispersal Seedling Shoot Structure Vegetation wither	photosynthesis Chlorophyll Roots Leaves Stem Flower Transpiration Xylem/phloem transport/transportation climate zones tap root pollinate/pollination fertilise/fertilisation germination/germinate seed/seed dispersal nut/stone/pea/bean/pip seedling stamen stigma style filament anther carpel pollen ovary/ovule petals disperse nutrients/nutrition absorb	Deciduous Evergreen Grasses Plant groups Flowering plants/non flowering plants trees	Pollinate/Pollination Fertilise/Fertilisation Dispersal Germinate/germination Carpel/pistil Stigma Style Ovary Ovule pollen Stamen Anther Filament Sepals Petals Sex cells Sexual reproduction Asexual reproduction	

<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Living things and their habitats</p>	<p>Alive Grow living</p>	<p>Alive Breathe Dead Feed Grow Living Meat eater Carnivo re Plant eater Herbivo re Shelter</p>	<p>Adapted Conditions Damp Dark Dinosaur Environment Food chain Food source Habitat Indigenous Life cycle Microhabitat Microscope Pond Predator Prey Produce Reproduce Suited Surroundings Variety woodland</p>	<p>Carnivore Omnivore Vegetarian Herbivore Climate/climate zones Vegetation soil</p>	<p>Classification Dominant Invertebrates Vertebrates Key Organism Pollution Population Region Variation Biome Environmental Fungus/fungi mould</p>	<p>Life cycle Genetic/genetically identical Clone Plantlet Runners Tuber bud Seed formation Transpiration Non-flowering plant Flowering plant Asexual reproduction Sexual reproduction Mammals Life cycle Live young Monotreme Placentals Marsupials Metamorphosis Incomplete metamorphosis Amphibian Insect Bird egg</p>	<p>Microbes Microorganisms organism</p>

Animals including humans	<p>Grow Animal People Living</p>	<p>Alive/dead/living Breathe/Feed Grow/move Meat eater/Plant eater Shelter Herbivore/Carnivore/Omnivore Animal Beak/Bird/Claw/feather/nest/wing Egg Eyes Family Fin/scales/Fish Fur Mouth Neck Nocturnal Hibernate/migrate Pets Pup/cub/baby Reptile Tail Tame/wild Ear/eye/Nose/mouth/tongue/lip/teeth Hip/thigh/knee/leg/ankle/foot/toe Skull/Neck/back/torso Shoulder/elbow/wrist/arm/hand Exercise Meat Fish Salt/Sugar/Sweet taste</p>	<p>Adult/child/teenager/toddler Amphibian/mammal/insect/bird Bones/skeleton Brain/heart/lungs Child Develop Live young Off-spring Young Survival Activity Balanced diet Beans Dairy Fat Germ Fruit Grains Heart rate Lifestyle Medicine Nuts Pulse Seafood Starch Sugar Vegetable Food chain Water Food Air Dependent hygiene</p>	<p>nutrients/nutrition food groups starches vitamins/minerals carbohydrates protein calcium fibre fats dairy saturated/unsaturated diet/balanced diet/dietary skeleton, vertebrates/invertebrates endoskeleton/exoskeleton backbone hydrostatic skeleton support protection movement joint - moveable/fixed hinge joint ball &amp; socket joint gliding joint vertebrae muscles bone cell nerve cell organ contracts/relaxes voluntary/involuntary automatic bicep/tricep pairs bones attached skull tendons hydrated</p>	<p>Mouth Teeth Oesophagus Small intestine/Large intestine Stomach Bowel rectum Anus Function Digestion Digestive system Nutrients Molar/Pre-molars/Incisor/Canine Cavities Dentine Enamel Pulp cavity Tooth decay Fluoride calcium Gums Nerves plaque Omnivore /Carnivore /Herbivore Predator/Prey Producer Ecosystem Habitat Food web Breakdown Chemical Excrete Faeces Gastric juices Reabsorb/Reabsorption Saliva Salivary gland</p>	<p>Life cycle Foetus Embryo Baby Infant/infancy Child Adolescent Adult Puberty Maturity Menstruation/menstrual cycle period Genitals Breast Perspiration Fertile Womb/uterus placenta Ovary egg Testicle/testes scrotum sperm Vagina Penis foreskin Pubic hair Old age/late adulthood Gestation/gestation period Vertebrate/invertebrate Elderly Fallopian tubes</p>	<p>Aerobic Air sacs Alveoli Aorta Artery Blood vessels Bronchi Bronchioles Capillaries Carbon dioxide Circulatory System Clotting Deoxygenated Diaphragm Gaseous Exchange Haemoglobin Oxygenated Plasma Pulmonary Red blood cells White blood cells Respiratory Respire Trachea Vein Ventricles Carbon monoxide Drugs</p>
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Evolution & Inheritance							Adaption Chromosomes Competition DNA Dominant genes Evolution Evolutionary change Fossil records Genes Inherit Inheritance Natural selection Recessive genes Species Survival of the fittest offspring
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# Chemistry

<b>States of Matter</b>	Freeze Freezing Melt Melting Solid liquid				Boiling point Celsius Change of state Condensation Evaporation Degree Freezing point Gas Gaseous Steam Liquid Melting point Molecules Oxygen Precipitation Solid Solidify Water cycle Water vapour		
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<b>Materials</b>	<p>Wood Plastic Metal Glass Brick Sticks Strong/weak</p>	<p>Bendy/flexible/stiff Bright/dim Freeze/melt Hard/soft Strong/weak Rough/smooth Shiny/dull Waterproof See-through Material Glass Plastic Metal Wood Rock water object</p>	<p>Elastic/rigid Flexible Function Man-made Natural Pressure Property Purpose Reflection Rust Suitable Transparent Useful Squash Compress Stretch Twist Bend Brick Paper Wood Metal cardboard</p>	<p>Permeable/impermeable Reflective/shiny/dull Rough/smooth Opaque Translucent Transparent Absorb/absorbent Magnetic Dissolve chemical</p>		<p>Material Property Magnetic Hard/durable Transparent/Translucent/opaque Flexible Solubility Conductive Elastic Combustible flammable Absorbency Flexibility Waterproof/absorbent Separate Mixture Solution/suspension Soluble/Insoluble Dissolve Evaporate Saturate/saturation point Solid Liquid Filter/filtrate Sieve Magnet Attract Particles Reversible/ irreversible Physical Chemical Reaction Reactant residue product</p>	
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<b>Rocks &amp; soils</b>				Permeable/impermeable Permeability Durable/durability/hardness weathering/erosion Igneous/Metamorphic/Sedimentary Sediment Particle/grain/granule Minerals Chalk Crystals Clay Granite Limestone Marble Pebble Porous Quartz Sand Sandstone Silt slate Fossil decompose/decomposition preserved organic matter soil Magma Lava crust mantle outer core inner core layers			
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# Physics

Science								
	Reception	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	
Forces	Float Sink Push pull	Float Pull Push Sink	Squash Stretch twist	force magnet/magnetic/magnetism non-magnetic push/pull/twist/turn gravity friction opposing force surface area north pole south pole attracted/attract repel/repelled metal iron nickel aluminium cobalt steel bar magnet horseshoe magnet ring magnet			Isaac Newton Gravity Theory Newtons Newton meter Weight Gram Kilogram Gravity Air resistance Mass Stream lined Water resistance Friction upthrust Bar chart Gears Levers Mechanisms Pulleys Parachutes Surface tension/resistance Fulcrum Drag	

Light	Light Dark shadow		natural man-made light source reflective/reflection retroreflective transparent/translucent/opaque material mirror reversed concave/convex/plane/flat shadow block absorb light beam/wave sun moon UV rays ultraviolet Suncream/sun lotion sunglasses SPF Sun protection factor Damage Sunburn Calcium Vitamin D Ozone layer			Concave mirror Convex mirror Curved Prism Refraction Cornea Iris Lens Optics Pupil Retina Sundial Spectrum Emit Absorb
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Sound	Loud Quiet				Vibrations/vibrate Waves Source Amplitude Sound/sound source Transmit Medium Air Water Solid Sound waves Particles Travel Volume Loudness Pitch Frequency Wavelength Cochlear Hammer (malleus) Anvil (incus) Stirrup (stapes) Eardrum Ear canal pinna Muffle Auditory Decibel Echo Insulation Mute Noise Soundproof Tone Tuning fork		

Electricity					Atom Nucleus Neutron Proton Electron Electrical current Attract /Repel Mains Positive/negative Battery/batteries Current Appliances Safety Danger Precautions Home School Electricity /electrical Cell(s) Battery holder Crocodile Clips Wires Bulb Bulb holder Buzzer Motor Switch Symbol Test Visualise Complete /Incomplete circuit Circuit Components Conductor/insulator		Conductivity Copper wire Current Amps Volts Dimmer switch Fuse Generator Parallel circuits Power Resistance Series circuits Simple circuits Socket Terminal Volts Voltage Wire
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<p style="text-align: center;"><b>Earth and space</b></p>	<p>Day Night Sun Sunlight Moon planets</p>	<p>Day Night Sun Sunlight Summer Winter seasons</p>		<p>Sun sunlight Moon Magma Lava crust mantle outer core inner core Day/night</p>		<p>Ellipsis/elliptical Celestial body Orbit Solar systems Sun Planet Axis Rotate/rotation Earth Sun Night Day Dark Light East West Comet Asteroid Galaxy Equator Latitude/longitude Hemisphere Mars Mercury Venus Jupiter Saturn Uranus Neptune Pluto Dwarf planet Meteorite Revolve Sphere Spherical Spin Time zone Phases of the moon Waxing/waning Solar system Milky Way Universe New moon Quarter moon Waxing/waning gibbous</p>	

Seasonal Changes	Spring Summer Autumn Winter weather	Autumn Spring Summer Winter Bright Cold Dark Darkness Day/daily Dim Hot Ice Length Light Month Moon Movement Rain Rainbow Seasons/seasonal Shadow Snow Sun Sunlight Weather Wind year	Fortnight Equator Monthly Daily Weekly January February March April May June July August September October November December				