



## Science Vocabulary Ladder

### EYFS

In EYFS, we expect children to understand and use the following words or their associated meanings:

**Animals:** head eyes nose mouth ears hands fingers feet toes arm animal herbivore face carnivore hair omnivore leg human knee fish elbow birds back

**Plants:** tree leaf flower stem seed petals trunk fruit branch roots leaves bulb

**Materials:** material wood glass paper hard soft metal wood rock plastic fabric smooth shiny rough

**Seasonal Changes:** Summer day Spring dark Autumn light Winter night Season Moon

**Forces, Earth & Space:** Earth Moon Sun star Planet space

**Sound, Light & Electricity:** loud quiet loud volume sound

### Key Stage 1 Working Scientifically

Investigation Enquiry What to change What we used What we did What we found out Question Answer Observe Equipment Identify

Classify Sort Group Record Diagram Chart Map Data Compare Contrast Describe Biology Chemistry Physics

	Autumn		Spring	Summer
Year 1	<b>Animals including</b> <b>Humans</b> Fish Reptiles Mammals Birds Amphibians Herbivore Carnivore Omnivore Head Ear Eye Mouth Nose Leg Knee Arm Elbow Back Wings Beak	<b>Seasonal Changes</b> Summer Spring Autumn Winter Season Sun Day Moon Night Light Dark	<b>Everyday Materials</b> Material Wood Plastic Glass Paper Fabric Metal Rock Hard Soft Smooth Shiny Rough Bendy Flexible	<b>Plants</b> Evergreen Deciduous Tree Branches Trunk Leaves Flowers Blossom Petals Fruit Roots Bulb Seed Stem
	<b>Animals including</b> <b>Humans</b> Survival Water Air Oxygen Food Adult Baby Offspring Kitten Calf Puppy Foal Exercise Hygiene	<b>Living Things in Their Habitats</b> Living Dead Habitat Micro-habitat Energy Food chain Prey Predator Woodland Pond Desert	<b>Materials and Their uses</b> Stiff Shiny / Dull Rough Smooth Waterproof Absorbent Transparent / Opaque Brick Fabric Foil Squashing Bending Twisting Stretching Elastic	<b>Plants</b> Seeds Bulb Water Light Temperature Growth

## Key Stage 2 Working Scientifically

Investigation	Enquiry	Prediction	Variable	Dependent variable	Independent variable	Constant	Patterns	Equipment
Apparatus	Method	Results	Conclusion	Research	Relevant questions	Comparative and fair test	Systematic	Careful
observation	Accurate measurements	Thermometer	Data logger	Gather	Present	Labelled diagrams	Keys	Bar charts
Tables	Evidence	Improve	Secondary sources	Guides	Construct	Interpret	Precision	Repeat readings
	Classification keys	Scatter graphs	Line graphs	Causal relationship	Explanations	Degree of trust		
	Support, refute ideas or arguments	Identify, classify and describe patterns	Systematic quantitative measurements					

### Year 3

#### Rocks, soils and Fossils

Sandstone  
 Limestone  
 Granite  
 Marble  
 Pumice  
 Slate  
 Crystals  
 Properties  
 Permeable / impermeable  
 Hardness  
 Sedimentary  
 Igneous  
 Metamorphic  
 Fossils  
 Soil  
 organic matter  
 Humus

#### Light and Shadows

Light  
 Dark  
 Shadows  
 Blocking  
 Mirror  
 Reflect  
 Reflective  
 Reflection

#### Magnets and Forces

Force  
 Push  
 Pull  
 Contact  
 Magnetic  
 Attract  
 Repel  
 Poles (north / south)  
 Friction  
 Resistance

#### Animals including Humans

Bones  
 Muscles  
 Skull  
 Ribs  
 Skeleton  
 Support  
 Protection  
 Movement  
 Herbivore  
 Carnivore  
 Omnivore  
 Teeth  
 Canine  
 Incisor  
 Molar

#### Plants

Air  
 Light  
 Water  
 Soil  
 Nutrients  
 Reproduction  
 Seed formation  
 Dispersal  
 Germination  
 Pollination  
 Transportation  
 Species  
 Location  
 Photosynthesis

Year 4	<b>Living Things and Their habitats</b> Fish Reptiles Mammals Birds Amphibians Snails Slugs Worms Spiders Insects Environment Habitat Vertebrate Invertebrate Exoskeleton Adaptation	<b>Electricity</b> Cells Batteries Wires Switches Circuit Series Parallel Buzzers Bulbs Mains Insulators Conductors	<b>States of Matter</b> Solid Liquid Gas Temperature Heating Freezing point Boiling point Particles Evaporation Condensation Thermometer Thermal insulation	<b>Sound</b> Volume Vibration Sound wave Loud Soft High pitch Low pitch one Speaker Amplitude Frequency	<b>Animals including Humans</b> Mouth Tongue Teeth Canine Incisor Molar Oesophagus Stomach small intestine Large intestine Herbivore Carnivore Omnivore	<b>States of Matter</b> Solid Liquid Gas Temperature Heating Freezing point Boiling point Particles Evaporation Condensation Thermometer Thermal insulation
Year 5	<b>Properties and Changes of Materials</b> Hardness Solubility Mixing Dissolving Melting Solution Solute Transparency Conductivity Magnetic Filter Filtration Evaporation Condensation Reacting / reactants Squashing Bending Twisting Stretching Elastic	<b>Earth and Space</b> Earth Sea Sun Moon Axis Planets Solar system Star Constellation Phases of the moon Waxing Waning Gibbous moon Full moon	<b>Living Things and Their Habitats</b> Reproduction of mammal Bird Insect Amphibian Offspring Complete / Incomplete Metamorphosis Hatch	<b>Forces</b> Force Friction Newton Gravity Newton meters Air resistance Water resistance Gears Pulleys Levers	<b>Animals including Humans</b> Foetus Embryo Womb Gestation Baby Toddler Teenager Puberty Adolescent Adult Elderly Development Growth	

<p><b>Year 6</b></p>	<p><b>Light</b>            Reflection            Refraction            Lens            Light spectrum            Colour            Prism            Rainbow</p>	<p><b>Electricity</b>            Cells            Batteries Wires            Bulbs            Switches            Buzzers            Circuit            Series            Parallel            Conductors            Insulators            Amps            Volts</p>	<p><b>Evolution and inheritance</b>            Fossils            Adaptation            Evolution            Characteristics            Reproduction            Genetics</p>	<p><b>Living things in their habitats</b>            Classification            Mammals            Birds            Amphibians            Fish            Reptiles            Insects            Vertebrates            Invertebrates            Micro-organisms            Bacteria            Fungi</p>	<p><b>Animals including Humans</b>            Heart            Blood            Circulatory system            Blood vessels            Veins            Arteries            Valves            Oxygenated            Deoxygenated            Exercise            Pulse            Respiration</p>
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