

Teaching Science Vocabulary Explicitly

Closing the language gap: Building vocabulary

<u>Tier 1 Vocabulary</u>	<u>Tier 2 Vocabulary</u>	<u>Tier 3 Vocabulary</u>
<ul style="list-style-type: none"> High frequency in spoken language (table, slowly, write, horrible) 	<ul style="list-style-type: none"> High frequency in written texts (gregarious, beneficial, required, maintain) Dual vocabulary_ 	<ul style="list-style-type: none"> Subject specific, academic language (osmosis, trigonometry, onomatopoeia)

Progression of Science Vocabulary (Tier 3)

	<u>Year 1</u>	<u>Year 2</u>	<u>Year 3</u>	<u>Year 4</u>	<u>Year 5</u>	<u>Year 6</u>
Seasonal Changes	Seasons Autumn Winter Summer Spring Weather daylight					
Everyday Materials	absorbent material metal natural plastic paper waterproof wood	absorbent force invention properties repel squash stretch waterproof				
Plants	deciduous evergreen flower fruit leaf root seed stem	botanist bulb fruit germinate nutrient pollen seed seed dispersal	function germination ovule photosynthesis pollination reproduce seed dispersal transpiration			
Animals including Humans	amphibian bird fish mammal reptile sense sight smell	adult balanced diet birth child growth hygiene life cycle reproduction	carbohydrates fibre muscles nutrients protein skeleton tendon vitamins	canine digest incisor intestines molar nutrient oesophagus salivary gland	adolescence elderly fertilisation gestation hormone menstruation puberty reproduce	arteries bacteria capillaries deoxygenated oxygenated plasma transportation veins
Living Things and Habitats		desert excrete habitat living microhabitat		classify characteristics cold-blooded exoskeleton invertebrate	asexual endangered fertilisation life cycle metamorphosis	characteristics classify fungi invertebrate kingdom

		producer root vegetable woodland		reproduction vertebrate warm-blooded	naturalist offspring reproduction	microorganism species vertebrate
Rocks			acid rain fossil igneous rock metamorphic rock mineral sedimentary rock soil types weathering			
Forces			attract bar magnet force friction horseshoe magnet magnetic poles repel		friction gear gravity lever mass pulley resistance streamlined	
Light			darkness fluorescent light source opaque reflection shadow sun protection transparent			angle of incidence angle of reflection lens opaque reflection spectrum translucent transparent
Sound				decibel eardrum pitch speed of sound soundproof sound wave vacuum vibration		
Electricity				appliance cell circuit diagram conductor insulator parallel circuit series circuit switch		circuit component conductor electrons filament fuse insulator voltage
States of Matter				Celsius condensation evaporation gas liquid particle precipitation solid		
Earth and Space					astronomy gravitational force moon	

					orbit planet rotation solar system sun	
Properties and Changes of Materials					dissolve filtering insoluble irreversible reversible separate soluble solution	
Evolution and Inheritance						adaption ancestor DNA environment evolution fossilisation generation inheritance natural selection traits
Scientific Enquiry			scientific investigation prediction plausible record data method control experiment equipment enquiry practical conclusion fair test			
Looking After Our Environment						weather global warming recycle biodegrade net zero greenhouse gases industrial revolution combustion COP conference species habitat