



Wicklewood Primary School and Nursery

Science Vocabulary Progression

	EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Working Scientifically	<p>changes similar different important observation Why? What? How? question explore discover</p>	<p>Enquiry types: Comparative / fair testing, Research, Observation over time, Pattern Seeking, Identifying, grouping and classifying, Scientific discovery.</p> <p>Enquiry skills: questions, prediction, test, observe, measure, record, interpret</p> <p>Experience, observe, changes, patterns, grouping, sorting, classifying, compare, identify (name), data, measure, record, equipment, questions, test, investigate, explore, magnifying glass / hand lens, same, different, questioning, data</p>	<p>Enquiry types: Comparative / fair testing, Research, Observation over time, Pattern Seeking, Identifying, grouping and classifying, Scientific discovery.</p> <p>Enquiry skills: questions, prediction, test, observe, measure, record, interpret, communicate, evaluate</p> <p>Develop, enquiry, practical, enquiry, fair test, comparative, test, relationships, conclusion, accurate, thermometer, data logger, estimate, data, diagram, key, table, chart, bar chart, results, predictions, explanation, reason, similarity, difference, question, evidence, information, findings, criteria, values, properties, characteristics, questioning, observation, improvements, process</p>	<p>Enquiry types: Comparative / fair testing, Research, Observation over time, Pattern Seeking, Identifying, grouping and classifying, Scientific discovery.</p> <p>Enquiry skills: questions, prediction, test, observe, measure, record, interpret, communicate, evaluate</p> <p>Enquiry, variables, control variables, independent variable (what you change), dependant variable (what is being tested), evidence, justify, accuracy, precision, repeat readings, scientific diagrams, classification keys, tables, scatter graphs, bar graphs, line graphs, argument (science), causal relationship, prediction, explanation</p>			

<p style="text-align: center;">Biology: Animals including Humans</p>	<p>healthy exercise healthy diet plants animals body parts (head, arms, legs, stomach, feet, toes, hands, fingers, neck, knees, ankles) teeth</p>	<p>names of common animals: <ul style="list-style-type: none"> • fish • amphibians • reptiles • birds • mammals carnivores herbivores omnivores structure human body Body parts: <ul style="list-style-type: none"> • feet • fingers • toes • elbows • knees • hair • teeth • head • neck • arms • legs • face • ears • eyes • mouth • tongue • nose Senses: <ul style="list-style-type: none"> • see • hear • feel • smell </p>	<p>offspring survival baby toddler child teenager adult food water air exercise hygiene healthy nutrition growth reproduction (<i>focus on growth, not on how reproduction occurs</i>) egg -chick -chicken egg -caterpillar- pupa - butterfly spawn- tadpole- frog lamb- sheep</p>	<p>nutrition diet skeleton muscles function protection support movement bones skull food groups protein carbohydrate fat sugar dairy fruit and vegetables</p>	<p>digestive system mouth tongue teeth oesophagus stomach small intestine large intestine</p> <p>types of teeth: molar, premolar, incisor, canine saliva, enamel, dentine, acid</p> <p>food chain prey predator primary producer carnivore omnivore herbivore</p>	<p>old age growth puberty gestation period</p>	<p>circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet drugs skeletal system muscular system digestive system</p>
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		<ul style="list-style-type: none"> taste 					
Biology: Plants	plants roots stem leaves flower water soil mud	plants wild plants garden plants evergreen trees deciduous trees common flowering plants trees flowers vegetables leaf/leaves flower blossom petal fruit roots bulb seed stem trunk branch	seeds bulbs mature plants bud growth grow habitat local environment leaf fall water light temperature healthy growth survive soil germinate stages of growth reproduction (in plants)	functions roots stem/trunk leaves flowers nutrients nutrition air light nutrients soil room to grow transport (water) xylem vessels life cycle pollination seed formation seed dispersal reproduce fertiliser			
Biology: Evolution and inheritance							fossil millions of years offspring identical evolution evolve adaptation environment variation inherit inheritance

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<p style="text-align: center;">Biology: Living things and their habitats</p>	<p>similar different woods garden field farm animals fish birds mammals</p>		<p>pond garden field park woodland sea shore river ocean forest rainforest stones rocks logs leaf litter habitat micro-habitat living dead never been alive alive food chain producer prey predator adaption depend source of food shelter healthy grow growth healthy habitat local environment pet wild animal insect, minibeast</p>		<p>environment non-flowering plants ferns mosses flowering plants grasses vertebrate animals: <ul style="list-style-type: none"> • fish • birds • mammals • amphibians • reptiles invertebrate animals: snails <ul style="list-style-type: none"> • worms • slugs • spiders • insects human impact: <ul style="list-style-type: none"> • litter • deforestation • population increases • nature reserves • danger • ecological positive negative</p>	<p>environment life cycles mammal amphibian bird insect reproduction life processes sexual and asexual reproduction in plants sexual reproduction in animals root cuttings</p>	<p>classification characteristic similarities differences microorganisms organisms groups classification systems invertebrates vertebrates classification key</p>
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Chemistry: Materials	material soft hard wood paper plastic metal glass water rock brick stone	everyday materials <ul style="list-style-type: none"> • wood • paper • plastic • metal • glass • water • rock • brick • stone • fabric • elastic • foil • dough • rubber • card • cardboard • clay material physical properties object make/made hard/soft shiny/dull stretchy/stiff rough/smooth bendy/not bendy waterproof/not waterproof transparent/opaque absorbent/not absorbent	solid squash twist bend stretch properties materials <ul style="list-style-type: none"> • wood • metal • plastic • glass • brick • rock • paper • cardboard suitable unsuitable purpose			properties hardness solubility transparency electrical conductivity thermal conductivity magnetism dissolve solution substance solid liquid gas separating mixing filtering sieving melting evaporating reversible change burning rusting oxidation reactions irreversible change acid bicarbonate of soda	

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<p>Chemistry: Rocks</p>	<p>rock mud stone soil</p>			<p>rock Soil sandy peaty loamy fossil organic matter grains crystals sedimentary rock igneous rocks metamorphic rock properties appearance rock cycle</p>			
<p>Chemistry: States of matter</p>					<p>solid liquid gas temperature heat (heating) cool (cooling) water cycle evaporation condensation melting freezing degrees celcuis (°C)</p>		

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<p>Physics: Seasonal changes</p>	<p>seasons seasonal change spring summer autumn winter weather sun sun glasses sunshine rain snow sleet ice frost fog cloud hot cold storm sky earth night day</p>	<p>seasons seasonal change spring summer autumn winter weather sun sun glasses sunshine rain snow sleet ice frost fog cloud hot cold storm sky earth night day</p>					
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<p>Physics: Light</p>	<p>light bright dark</p>			<p>light dark (absence of light) reflect mirror sun glasses protection shadow opaque mirror reflective surface</p>			<p>light sources travel straight lines Ultraviolet light eye periscope focus pupil (eye) retina lens reflection shadow refraction rainbow</p>
<p>Physics: Forces and magnets</p>	<p>push pull lift up down fall</p>			<p>move movement surfaces forces contact push pull contact distance magnet bar magnet ring magnet button magnet horseshoe magnet attract repel poles (of magnets) magnetic force magnetic field materials strength maglev train</p>		<p>gravity Earth falling force air resistance water resistance friction mechanism levers pulleys gears springs</p>	

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<p>Physics: Sound</p>	<p>loud quiet ear hear</p>				<p>sound vibration vibrate ear ear drum pitch volume insulation sound wave tuning fork</p>		
<p>Physics: Electricity</p>	<p>light bright plug wire</p>				<p>electricity simple circuit light bulb lamp cell wire buzzer switch motor battery (cell) series circuit conductor insulator metal precautions safety</p>		<p>brightness lamp light bulb volume buzzer switch voltage components symbols circuit diagram series circuit</p>

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<p>Physics: Earth and space</p>	<p>sun moon Earth star</p>					<p>solar system planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune moon stars sun sun glasses Ultraviolet light movement day night spherical bodies rotation orbit satellite</p>	
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