

## St Ann's Heath Junior School – Science vocabulary progression

<b>Curriculum Intent</b>	<ul style="list-style-type: none"> <li>Prepare our children for life in an increasingly scientific and technological world today and in the future.</li> <li>Equip our children with knowledge, skills and understanding outlined in the Science National Curriculum.</li> <li>Nurture children's curiosity about the world around them and inspire future scientists.</li> <li>Promote scientific enquiry and ensure our children are taught the skills they need to find out more about the world and how it works.</li> <li>Provide practical experiences to encourage and explore areas of science.</li> <li>Recognise working scientifically skills and use these in science lessons and any application of science.</li> </ul>
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	KS1	Year 3	Year 4	Year 5	Year 6
<b>Working scientifically</b>	What? How? Why? Similar, different, best, worst, change, plan, look, biggest, smallest, compare, sort, group, observe, slowly, quickly, describe, name, identify, label, record, measure, pattern, notice, cycle, predict, answers, difference,	Gradually, identify, observe, recognise, investigate, record, units, table, fair, evidence, research, length, observations, prediction, accurate, bar chart, chart, classify, comparative test, conclusion, criteria, data, diagram, evaluate, evidence, explanation, key, fair test, method, observations, primary sources, reasoning, relationships, results, secondary sources, standard units, table			Classify, interpret, pattern, relationship, prediction, analyse, interpret, conclude, evaluate, rank, variable, constants, control, repeat, key, relationship, line graph, hypothesis, evaluate, categorise, database, enquiry, support, refute, degree of trust, scatter graph
<b>Plants</b>		Roots, stem, leaves, flowers, nutrients, evaporation, fertilisation, petal, stamen, carpel (pistil), sepal, pollination, pollinator, germination, seed dispersal			

<b>Animals including humans</b>		Healthy, nutrients, energy, saturated fats, unsaturated fats, vertebrate, invertebrates, muscles, tendons, joints	Digest, oesophagus, stomach, small intestine, large intestine, rectum, herbivore, carnivore, omnivore, producer, predator, prey	Fertilisation, prenatal, gestation, reproduce, asexual reproduction, sexual reproduction, life cycle, life expectancy, adulthood, puberty, menstruation	Circulatory system, heart, blood vessels, oxygenated blood, deoxygenated blood, drug, alcohol, nutrients
<b>Materials and their properties</b>				Materials, solids, liquids, gases, melting, evaporating, condensing, conductor, insulator, transparency	
<b>Seasonal Changes</b>					
<b>Living Things and their Habitats</b>			Organisms, life processes, respiration, sensitivity, reproduction, excretion, nutrition, habitat, environment, endangered species, extinct, classification, vertebrates, invertebrates, specimen, characteristics	Asexual reproduction, sexual reproduction, gestation, life cycle, metamorphosis, pollination	Characteristics, classify, species, taxonomist, bacteria, microorganism, microscope, key
<b>Electricity</b>			Electricity, generate, renewable, non-renewable, appliances, battery, circuit.		Circuit, symbol, cell, battery, current, voltage, amps, resistance, electrons
<b>Light</b>		Light, light source, dark, reflection, reflect, reflecting, ray, pupil,			Light, light source, reflection, incident ray, reflected ray, the law of reflection, refraction, visible

		opaque, translucent, transparent, shadow, retina			spectrum, prism, shadow, transparent, translucent, opaque
<b>Forces</b>		Forces, friction, surface, magnet, magnetic, magnetic field, poles, repel, attract		Forces, gravity, Earth's gravitational pull, weight, mass, friction, air resistance, water resistance, mechanism, buoyancy, streamlined	
<b>States of Matter</b>			States of matter, solids, liquids, gases, waterproof, melt, freeze, evaporate, condense, precipitation		
<b>Sound</b>			Vibration, sound wave, volume, amplitude, pitch, ear, particles, vacuum, eardrum, distance, soundproof, absorb sound		
<b>Rocks</b>		Igneous rock, sedimentary rock, metamorphic rock, magma, lava, permeable, impermeable, fossilisation, palaeontology, erosion			
<b>Earth and Space</b>				Sun, star, moon, sphere, spherical bodies, satellite, orbit, rotate, axis, geocentric model, heliocentric model, astronomer	

<b>Evolution and Inheritance</b>					Offspring, inheritance, variations, characteristics , adaptation, habitat, environment, evolution, natural selection, fossil, adaptive traits, inherited traits.
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