



WHISTON WILLIS PRIMARY ACADEMY

Vocabulary Progression in Science

Nursery	Reception	Year 1	Year 2
■ senses e.g. listen, smell, hear, see, touch ■ hard ■ soft ■ stretch ■ snap ■ different ■ change ■ mix ■ stir ■ sort ■ collect ■ add ■ freeze ■ melt ■ cook ■ join ■ light ■ colours ■ material	■ science ■ senses e.g. touch, taste, feel ■ sweet ■ sour ■ bright ■ clear ■ rough ■ smooth ■ shiny ■ shadow ■ dull ■ bumpy ■ waterproof ■ magnetic ■ freeze ■ melt ■ heat ■ frozen ■ sound ■ material names e.g. plastic, glass, metal ■ observe ■ magnifying glass ■ plant and tree parts e.g. seed, plant, petal, stem, roots, leaves, branch, bark ■ natural materials e.g. conker, acorn, pinecone, pebble, rock ■ experiment ■ test ■ pattern ■ texture	Animal Kingdom - vertebrate/ invertebrate/ mammal/ carnivore/ herbivore/ omnivore/ reproduce/ warm-blooded Seasons and Weather - season/ weather/ spring/ summer/ autumn/ winter/ rainy/ cloudy/ sunny/ stormy/ foggy/ forecast/ months/ calendar/ gauge/ measure/ liquid/ hibernation/ conserving/ survive Materials - material/ object/ magnetic/ absorb/ attract/ repel/ property/ heavy/ light/ hard/ flexible/ soft/ rough/ translucent/ waterproof/ transparent/	Human Lifestyle - muscles/ skeleton/ brain/ lungs/ heart/ carbohydrate/ protein/ dairy/ fruit/ vegetables/ fats/ sugars/ exercise/ health/ hygiene/ germs Habitats - characteristic/ movement/ respiration/ sensitivity/ nutrition/ excretion/ reproduction/ growth/ habitat/ organism/ microhabitat Plants - oxygen/ carbon dioxide/ temperature/ stigma/ petal/ stem/ roots/ anther/ flowers/ leaves/ seed/ seedling/ deciduous/ evergreen/ germination/ survive/ growth

		opaque/ smooth/ shiny Plants - oxygen/ carbon dioxide/ temperature/ stigma/ petal/ stem/ roots/ anther/ flowers/ leaves/ seed/ seedling/ deciduous/ evergreen/ germination/ survive/ growth Building Things - material/ object/ magnetic/ absorb/ attract/ repel/ property/ heavy/ light/ hard/ flexible/ soft/ rough/ translucent/ waterproof/ transparent/ opaque/ smooth/ shiny Sound - volume/ decibels/ pitch/ sound/ hearing/ taste/ smell/ sight/ touch/ senses/ messages/ aid/ vibrations/ deaf/ communication/ ears/ safety/ protect/ damage/ low/ high/ loud/ quiet	Changing Materials - material/ object/ magnetic/ absorb/ attract/ repel/ property/ heavy/ light/ hard/ flexible/ soft/ rough/ translucent/ waterproof/ transparent/ opaque/ smooth/ shiny Mixing and Making - solid/ liquid/ gas/ mixture/ reversible/ irreversible/ substance/ state/ matter/ boil/ vapour/ freeze/ melt/ temperature/ solidify/ heat/ cool/ soluble/ insoluble/ absorbent/ waterproof/ material/ magnetism/ sieve Space - solar system/ orbit/ axis/ rotate/ satellite/ NASA/ astronaut/ Mercury/ Venus/ Earth/ Mars/ Jupiter/ Saturn/ Uranus/ Neptune Light - light/ light source/ dark/ shadow/ reflection/ absorb/ absorption/ reflective/ non-reflective/ opaque/ daytime/ night time
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Year 3	Year 4	Year 5	Year 6
Practical Skills - scientific/ investigation/ practical/ variable/ independent variable/ dependent variable/ control variables/ fair test/ method/ diagram/ results/ conclusion Raw and Synthetic Materials - material/ raw materials/ synthetic materials/ rubber/ wood/ cotton/ wool/ leather/ silk/ oil/ sand/ clay/ recycle Sound - frequency/ Hertz/ amplitude/ acoustics/ eardrum/ hammer/ anvil/ auditory canal/ cochlea/ echolocation Forces - force/ contact force/ non-contact force/ up thrust/ gravitational force/ air resistance/ water resistance/ friction/ magnetic force/ lever/ pulley/ gear Plants - germination/ flowering/ pollination/ fertilisation/ seed dispersal/ transpiration/ sepals/ ovule/ ovary/ style/ stigma/ petal/ filament/ anther/	Phases of Matter - state/ phase of matter/ solid/ liquid/ gas/ compressible/ particles/ melt/ boil/ freeze/ condense/ heat/ cool/ temperature/ substance/ melting point/ boiling point/ expand/ contract Rock Cycle - mineral/ rock/ magma/ organic matter/ hard/ density/ permeable/ erosion/ sediment/ igneous/ sedimentary/ metamorphic/ weathering/ physical weathering/ chemical weathering/ biological weathering/ fossilisation Light - energy/ sources of light/ luminous/ darkness/ light meter/ Lux/ transparent/ translucent/ opaque/ reflection/ specular reflection/ diffuse reflection/ refraction/ pupil/ cornea/ lens/ retina/ optic nerve Space - sun/ planet/ moon/ asteroid/ meteor/ meteorite/ comet/ astronomy/ astrology/ universe/ galaxy/ star/	Separating Mixtures - pure substance/ mixture/ formula/ formulation/ solute/ solvent/ solution/ soluble/ insoluble/ filter/ alloy Physical and Chemical Changes - physical change/ chemical change/ particles/ melt/ boil/ freeze/ condense/ heat/ cool/ solid/ liquid/ gas/ reversible/ irreversible/ independent variable/ independent variable/ control variable/ repeatable/ reproducible Magnetism - force/ contact force/ non-contact force/ gravitational force/ magnetic force/ attract/ repel/ compass/ electromagnet/ magnetic field Electrical Circuits - electricity/ static electricity/ charge/ discharge/ circuit/ volt/ voltmeter/ voltage/ amp/ ammeter/ cell/ battery/ bulb/ buzzer/ switch/ insulator/ conductor Humans and Animals Over Time -	Particles and Chemical Reactions - pure substance/ impure substance/ depositing/ subliming/ melting/ boiling/ freezing/ condensing/ physical change/ chemical change/ chemical reaction/ precipitate/ solute/ solvent/ solution/ soluble Sustainability - reduce/ reuse/ recycle/ natural resource/ global warming/ climate change/ oxygen/ carbon dioxide/ greenhouse effect/ transparent/ opaque/ brittle/ malleable/ melting point/ conductor Heat - particle/ solid/ liquid/ gas/ heat transfer/ thermal equilibrium/ heat conduction/ conductor/ insulator Energy - energy transfer/ energy transformation/ efficiency/ power/ gravitational potential energy/ kinetic energy/ chemical energy/ elastic potential energy/ heat energy/ speed/ distance/ time

stomata Ecosystems - organism/ micro-organism/ habitat/ predator/ prey/ producer/ consumer/ photosynthesis/ herbivore/ carnivore/ omnivore	dwarf star/ lunar eclipse/ solar eclipse/ inner rocky planet/ outer gas giant Adaptations - organism/ habitat/ adaptation/ camouflage/ nocturnal/ echolocation/ streamlined Anatomy - endoskeleton/ exoskeleton/ organ/ peristalsis/ red blood cells/ white blood cells/ platelets/ plasma/ blood vessel/ muscles/ brain/ skeleton/ lungs/ liver/ kidneys/ skin/ stomach/ small intestine/ large intestine/ oxygen/ carbon dioxide	fossil/ fossilisation/ sediment/ evolution/ variation/ adaptation/ species/ Cenozoic Era/ Mesozoic Era/ Paleozoic Era/ Proterozoic Era Reproductive Cycles - pollination/ fertilisation/ sexual reproduction/ asexual reproduction/ larva/ gestation/ metamorphosis/ embryo/ adolescence/ germination/ flowering/ pollination/ fertilisation/ seed dispersal	Cells - organism/ organ system/ organ/ tissue/ cell/ mitochondria/ photosynthesis/ sperm cell/ root hair cell/ nucleus/ cell membrane/ cytoplasm/ vacuole/ chloroplast/ / cell wall/ digestive system/ circulatory system/ muscular system/ skeletal system/ respiratory system Diet and Lifestyle - nutrients/ healthy diet/ nutrition deficiency/ circulatory system/ drug/ medicine/ alcohol/ nicotine/ painkiller/ antibiotic/ anaesthetic/ carbohydrate/ protein/ fat/ mineral/ vitamin/ fibre/ water/ antagonistic muscle pair/ relax/ contract
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