

MIP Science Vocabulary Progression

	KS1	LKS2	UKS2
Working scientifically	<p>Questioning: question answer predict</p> <p>Observing and measuring/ performing tests: observe observing equipment measure fair test</p> <p>Identifying and classifying: identify classify sort group</p> <p>Gathering and recording data: diagram, label, chart, map, data</p> <p>Answering questions/ drawing conclusions: compare, contrast describe</p>	<p>Questioning: questions research scientific enquiry</p> <p>Observing and measuring/ performing tests: systemic, careful observation accurate measurements comparative and fair test</p> <p>Identifying and classifying: classify group sort identify compare</p> <p>Gathering and recording data gather, record data drawings, labelled diagrams, keys, bar charts, tables equipment – thermometer, data logger</p> <p>Answering questions/ drawing conclusions: explain conclusion predictions differences, similarities changes evidence improve interpret</p>	<p>Questioning/observing and measuring/ performing tests: predictions plan controlled variable dependent variable independent variable continuous variable measurements accuracy precise repeat readings comparative and fair test</p> <p>Gathering and recording data: random errors systematic errors reliable valid calculate mean scientific labelled diagrams classification keys, tables, scatter graphs, bar graph, lines graphs</p> <p>Answering questions/ drawing conclusions/ reporting findings: conclusions, casual relationships, explanations, degree of trust display and presentation evidence – support, refute ideas or arguments</p>

<p>Animals inc. Humans</p>	<p>fish gills amphibian fins reptile cold-blooded warm-blooded bird feathers herbivore mammal lungs carnivore omnivore backbone</p>	<p>nutrition nutrient fruit vegetables dairy fat sugar carbohydrate vitamin mineral fibre balanced diet skeleton muscles support protection movement skull ribs spine vertebrate invertebrate joint socket bone tendon</p>	<p>digestive system nutrition nutrients mouth teeth canine incisor molar pre-molar saliva tongue rip tear</p>	<p>heart blood vessels blood red blood cells white blood cells platelets plasma circulation circulatory system artery capillary vein pump oxygen carbon dioxide lungs nutrients water diet exercise drugs lifestyle</p>	<p>growth development stages embryo foetus uterus womb vagina ovaries gestation period life cycle baby child adolescent adult senior elderly puberty penis menstruation periods hormones testicles pubic hair mental health</p>
<p>Living Things and their Habitats</p>	<p>organism habitat microhabitat environment food chain producer consumer energy carnivore herbivore omnivore scavenger</p>	<p>classification key habitat environment human impact fish amphibian reptile bird mammal vertebrate invertebrate shelter food protection</p>		<p>life cycle reproduction sexual asexual germination pollination seed seed dispersal pollen stamen stigma plantlets runners mammal amphibian insect bird fish reptile eggs</p>	<p>organism microorganism fungus bacteria virus fish amphibian reptile bird mammal vertebrate invertebrate arachnid mollusc insect crustacean classification key similarities differences environment</p>

				live young	Challenge Vocab kingdom phylum class order family genus species Linnaeus taxonomy
Plants	leaf leaves tree deciduous evergreen grow light water flower blossom petal pollen fruit vegetable berry root bulb seed trunk branch stem bark soil temperature	daisy rose stinging nettle buttercup poppy bluebell	leaf leaves flower blossom petal fruit berry root bulb seed trunk branch stem bark nutrients soil fertiliser temperature growth transport life cycle pollination seed formation seed dispersal		
Materials/Rocks/States of Matter	materials wood plastic glass metal rock properties soft hard	properties materials elasticity rigidity flex durability strength recycling	rock sedimentary igneous metamorphic smooth rough light soil fossil	state matter solid liquid gas air oxygen ice water	hard soft elastic rigid flexible waterproof absorbent strong weak

	bendy stiff waterproof dull opaque absorbent stretchy floppy transparent shiny rough smooth flat bumpy sharp blunt bendy strong magnet magnetic non-magnetic waterproof absorbent lightweight breaks/tears water ice melts frozen observe evaporation bigger smaller	properties materials absorb absorbent waterproof natural manmade texture flexibility appearance melt mould recycle	grain crystal hard soft texture permeable impermeable marble chalk granite sandstone slate sand clay peat	water vapour steam heated cooled temperature degrees Celsius melt melting point freeze freezing point solidify boil boiling point evaporate evaporation condense condensation water cycle precipitation infiltration	rough smooth transparent opaque translucent reflective non reflective magnetic attract solubility electrical conductivity thermal change state melting solid liquid gas dissolve solution soluble insoluble solute solvent particle mix mixture filtering sieving evaporating residue burn reversible irreversible
Seasons/Earth & Space	observe temperature season elements shadows rainfall gauge rainfall precipitation thermometer	climate			Earth planet Sun solar system Moon celestial body sphere spherical rotate rotation night and day Mercury

			Venus Mars Jupiter Saturn Uranus Neptune Pluto 'dwarf' planet orbit revolve
Light		light light source dark darkness reflect reflective rays mirror shadow block direction opaque transparent translucent sun torch lamp flame light bulb	light light source dark darkness reflect reflective mirror shadow block absorb direct direction transparent opaque translucent
Sound		sound source noise vibrate vibration travel transmit sound waves particles solid liquid gas pitch high low volume loud	

		<p>quiet fainter insulation instrument percussion strings brass woodwind tune</p>	
Electricity		<p>electricity appliance device mains plug electrical circuit cells battery component wires bulbs switches buzzers conductor insulator series circuit</p> <p>positive negative connection short circuit wire crocodile clip motor metal non-metal short circuit</p>	<p>electricity appliance device electrical circuit complete circuit circuit diagram circuit symbol component cell battery positive negative terminal connection short circuit wire crocodile clip bulb bright dim switch buzzer volume motor conductor insulator metal non-metal voltage current resistance</p>
Forces		<p>force push</p>	<p>Earth gravity</p>

		<p>pull contact non-contact friction magnet magnetic non-magnetic bar magnet ring magnet button magnet horseshoe magnet strength poles north pole south pole material attract repel metal iron steel</p>	<p>mass weight force Newton air resistance water resistance upthrust friction moving surface mechanism lever pulley gear force meter</p>
Evolution & Inheritance			<p>evolution suited fossils environment adapted adaptation offspring characteristic vary variation inherit inheritance</p>