Science

Vocabulary progression

Standard

This version was updated on 01/10/2026 09:23

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Overview - Vocabulary progression

Working scientifically			
	Key stage 1	**Lower key stage 2**	**Upper key stage 2**
Question, Plan and predict	plan (1) predict	fair (1) investigate investigation method variable control variable rate	hazard model safety (1) testable fair test
Observe, test and measure Record	diagram group (1) measure observe sort (1) table (1) research test (1)	–	–

Working scientifically			
	Key stage 1	**Lower key stage 2**	**Upper key stage 2**
Conclude, Evaluate	compare difference (1) pattern (1) similarity results (1)	conclusion trustworthy proof/prove	evidence evaluate reliable
Observe, test and measure, Record	–	bar chart record results table stop watch classify classification key degrees Celsius (3) temperature thermometer	anomaly (3) data estimate line of best fit (3) line graph relationship mean average scale secondary data/source units

**Words on this page are classified as Tier 2 words unless stated otherwise.*

Science in action					
Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
science scientist	invention	n/a	ethics	discovery (1)	theory

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Scientific knowledge and understanding						
	Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Sensitive bodies	hearing (1) senses (1) sight (1) smell (1) taste (1) touch (1) touch	–	–	–	–	–

Scientific knowledge and understanding						
	Year 1	**Year 2**	**Year 3**	**Year 4**	**Year 5**	**Year 6**
Comparing animals	amphibian bird (1) carnivore diet fish (1) herbivore mammal omnivore reptile	–	–	–	–	–
Plants	bulb deciduous evergreen flower (1) fruit (1) garden plants growth (1) leaf (1) roots (1) seed (1) stem (1) trunk (1) wild plants	germinate energy (2) nutrient (2) life cycle (2) shoot	female (1) flowering plant male (1) pollen pollination reproduction seed dispersal transport	N/A	N/A	N/A

Scientific knowledge and understanding

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
	deciduous tree evergreen tree season (1) weather (1)	N/A	attract (2) contact force force (2) friction (2) magnet (2) magnetic material magnetism (2) non-contact force north pole repel (2) south pole	N/A	celestial bodies day (daytime) gravity (2) moon (1) night (nighttime) orbit (2) phase (2) planet (1) spherical star (1) year Solar System Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune Pluto air resistance balanced (2) gear gravity lever pivot pulley	N/A

		Scientific knowledge and understanding				
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Energy	N/A	N/A	cast (a shadow) light source luminous mirror non-luminous opaque reflect reflection reflective (shiny) shadow (1) the Sun translucent transparent	air (1) eardrum insulator pitch (2) sound vibration volume (2) appliance battery/cell bulb buzzer circuit (2) electrical conductor electrical insulator electricity (1) mains motor power source property switch (2) wire (1)	surface area unbalanced (2) water resistance N/A	light ray pupil ray diagram reflective cell circuit diagram current resistance voltage

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Materials	absorbent fabric glass (1) metal (1) material object plastic (1) rock (1) tough waterproof (1) wood (1)	elastic flexible (2) property suitable (1)	crystal fossil grain hard hardness rock sediment sedimentary rock sedimentation soft soil	boiling condensing evaporating evaporation rate freezing gas liquid melting precipitation solid steam the water cycle	dissolve filtering (2) insoluable mixture sieving soluble solution burning conductor electrical conductivity insulator irreversible change reversible change rust rusting thermal conductivity transparency	N/A

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Habitats and Microhabitats	–	alive (1) dead (1) depend (2) energy (2) food chain (2) habitat (2) life processes microhabitat minibeast predator (2) prey (2) shelter (1)	–	–	–	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Life cycles and health	–	basic needs egg (1) health (1) hygiene (1) life cycle (2) live young pupa spawn survive teenager (1) toddler (1) tadpole	–	–	–	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Movement and nutrition	–	–	balanced (diet) (2) bone (1) carbohydrate fat fibre invertebrate joint mineral movement muscle (1) nutrient protection protein skeleton support vertebrate vitamin	–	–	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Classification and changing habitats	–	–	–	conservation (2) deforestation (2) endangered (2) flowering plants insect nature reserve non-flowering plants pollution (2) slug snail spider worm	–	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digestion and food	–	–	–	canine digest (2) digestive system faeces incisor large intestine molar mouth (1) oesophagus premolar producer saliva small intestine stomach (1)	–	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Digestation and food	–	–	–	canine digest (2) digestive system faeces incisor large intestine molar mouth (1) oesophagus premolar producer saliva small intestine stomach (1)	–	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Life cycles and reproduction	–	–	–	–	adolescence (2) asexual reproduction characteristics (2) fertilisation germination gestation gills incubation lungs mating metamorphosis offspring ovule pollen pollination reproduction (2) sexual reproduction	–

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Human timeline	–	–	–	–	foetus gestation period hormones period (menustration) puberty period (menstruation)	–
Classifying big and small	–	–	–	–	–	cold-blooded conifer exoskeleton fern life processes microorganism moss organism warm-blooded

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Circulation and health	–	–	–	–	–	blood (1) bloodstream blood vessels carbon dioxide circulatory system drug heart (1) heart rate oxygen pulse

Scientific knowledge and understanding						
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Evolution and inheritance	–	–	–	–	–	adaptation (2) competition (2) environment (2) environmental (2) evolution (2) extinct (2) fossil gene inherit inheritance (2) natural slection parent (biological) (1) population (2) selective breeding survival of the fittest (2) variation (2) natural selection

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