

## Vocabulary progression

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Working scientifically</b>						
<b>Question</b> <b>Plan and predict</b>	plan	predict	variable fair method investigate	control variable	model testable safety hazard	rate
<b>Observe, test and measure</b> <b>Record</b>	observe measure diagram table sort group	test research	record bar chart results table stopwatch	classify classification key	temperature thermometer relationship estimate line of best fit line graph data anomaly	mean average secondary data/source units scale
<b>Conclude</b> <b>Evaluate</b>	compare similarity difference	results pattern	conclusion trustworthy	proof	evidence advantage/ disadvantage/ strength/ weakness	evaluate reliable
<b>Science in action</b>						
	science scientist	invention		ethics	discovery	theory
<p>*The words on this page are Tier 2 words, with high utility across a number of subjects. However, it is important to ensure that in science lessons, children understand the scientific meaning of these words, which may differ from their general usage or usage across other subjects.</p>						

## Vocabulary progression: Scientific knowledge and understanding

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Plants</b>					
growth (1) garden plants wild plants deciduous* evergreen* fruit (1) seed (1) bulb flower (1) leaf (1) roots (1) stem (1) trunk (1)	germinate energy* (2) nutrient* (2) life cycle* (2) shoot	female (1) male (1) petal pollen pollination seed formation disperse (2) support (2) transport (2)	N/A	N/A	N/A

\*This word occurs in the vocabulary progression for another key area.

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## Vocabulary progression: Scientific knowledge and understanding

Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
<b>Living things and their habitats</b>					
<b>Animals, including humans</b>					
senses (1) sight (1) smell (1) taste (1) touch (1) hearing (1) amphibian bird (1) fish (1) mammal reptile carnivore herbivore omnivore diet	habitats/microhabitats microhabitat minibeast habitat (2) shelter (1) alive (1) dead (1) predator (2) prey (2) food chain (2) energy* (2) depend (2) teenager (1) toddler (1) health (1) hygiene (1) basic needs survive life cycle* (2) egg (1) pupa tadpole live young spawn	N/A balanced (diet) (2) carbohydrate fat fibre vitamin mineral nutrient* protein skeleton vertebrate invertebrate bone (1) joint muscle (1)	conservation (2) deforestation (2) endangered (2) pollution (2) nature reserve flowering plants non-flowering plants saliva small intestine stomach (1) mouth (1) oesophagus large intestine digest (2) faeces incisor canine molar premolar producer*	adolescence* (2) characteristic (2) asexual reproduction sexual reproduction fertilisation* mating offspring reproduction (2) incubation gestation gills lungs* ovule germination foetus gestation period hormones period (menstruation) puberty	organism life processes warm-blooded cold-blooded Insect (1) exoskeleton micro-organism circulatory system heart (1) blood (1) bloodstream blood vessels lungs pulse heart rate carbon dioxide oxygen drug  adaptation (2) competition (2) environment (2) environmental (2) evolution (2) extinct (2) fossil* gene inherit/inheritance (2) natural selection parent (biological) (1) population (2) selective breeding survival of the fittest (2) variation (2)

The 'Living things and their habitats' and 'Animals, including humans' units share strong connections and overlap. To avoid repetition, we have combined the vocabulary from these key areas into a single progression.

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<b>Forces, Earth and Space</b>					
weather (1) season (1) deciduous tree* evergreen tree*	N/A	force (2) contact force non-contact force friction (2) magnetism (2) magnet (2) north pole south pole attract (2) repel (2)	celestial bodies spherical orbit (2) moon (1) star (1) planet (1) gravity (2) phase (2)	solar system Mercury Venus Earth Mars Jupiter Saturn Uranus Neptune Pluto	unbalanced (2) balanced (2) air resistance water resistance gear lever pulley

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<b>Energy</b>					
N/A	N/A	cast (a shadow) light source luminous non-luminous opaque reflect reflection reflective (shiny) shadow (1) translucent transparent	air (1) vibration eardrum insulator* pitch (2) volume (2)	appliance electricity (1) power source mains circuit (2) bulb buzzer cell/battery motor switch (2) wire (1) property* electrical conductor* electrical insulator*	N/A  light ray optical fibre periscope pupil ray diagram circuit diagram current resistance (2) voltage

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<b>Materials</b>					
material object fabric glass (1) metal (1) plastic (1) rock (1) wood (1) absorbent tough waterproof (1)	property suitable (1) elastic flexible (2)	crystal fossil grain hard hardness sediment sedimentary rock sedimentation soft	boiling condensing evaporating evaporation rate freezing gas liquid melting precipitation solid steam the water cycle	conductor* insulator* electrical conductivity* thermal conductivity mixture irreversible change reversible change rust/rusting burning dissolve soluble insoluble solution filtering (2) sieve/sieving	N/A

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