

Scientific Vocabulary - National Curriculum, England

Language is vital for communication and children enjoy learning new words.

Children should be able to use the vocabulary (and derivations from the key words listed below) of preceding topics as well as those listed for their current science topic that in the English national curriculum is separated by year group. All the vocabulary listed here is taken from the science curriculum or related subjects, such as mathematics.

Be aware that words may have multiple meanings and children may not realise that in different contexts a word might mean something a little different – such as explore, record, argument. Note that photosynthesis isn't in the list simply because it's not in the statutory primary curriculum.

Science Topic	Year 1-2	Year 3-4		Year 5-6
Working scientifically	experience	develop	bar chart	variables
	observe	enquiry	results	evidence
	changes	practical	predictions	justify
	patterns	enquiry	explanation	accuracy
	grouping	fair test	reason	precision
	sorting	comparative	similarity	scatter graphs
	classifying	test	difference	bar graphs
	compare	relationships	question	line graphs
	identify (name)	conclusion	evidence	argument (science)
	data	accurate	information	causal relationship
	measure	thermometer	findings	
	record	data logger	criteria	
	equipment	estimate	values	
	questions	data	properties	
	test	diagram	characteristics	
	investigate	key		
	explore	(identifying)		
	magnifying glass / hand lens	table		
	same	chart		
	different			

Science Topic	Year 1-2		Year 3-4	Year 5-6
Animals, including humans	names of common animals: fish, amphibians, reptiles, birds, mammals carnivores herbivores omnivores human body senses see hear feel smell taste habitat local environment pet wild animal insect minibeast food eat head neck body arms legs ears eyes nose mouth tongue hands	feet fingers toes elbows knees hair teeth grow healthy offspring adults young water air survive exercise hygiene egg chick chicken caterpillar pupa moth butterfly tadpole frog frog spawn lamb sheep calf cow foal horse	nutrition diet skeleton muscles protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre- molar, incisor, canine saliva	puberty gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet drugs

Science Topic	Year 1-2	Year 3-4	Year 5-6
Plants	plants wild plants garden plants evergreen trees deciduous trees common flowering plants flowers vegetables leaf/leaves flower blossom petal stem trunk branch root seed bulb bud growth grow habitat local environment leaf fall water light temperature healthy growth survive soil germinate stages of growth	functions nutrients nutrition air transport (water) life cycle pollination seed formation seed dispersal reproduce fertiliser	

Science Topic	Year 1-2	Year 3-4	Year 5-6
Living things and their habitats	pond	environment	life cycles
(including evolution and	garden	non-flowering plants	reproduction
inheritance)	field	ferns	life processes
	park	mosses	sexual and asexual
	woodland	flowering plants	reproduction (plants)
	sea shore	grasses	root cuttings
	river	vertebrate animals: fish, birds,	classification
	ocean	mammals, amphibians,	microorganisms
	forest	reptiles	organisms
	rainforest	invertebrate animals: snails,	evolution
	stones	worms, slugs, spiders, insects	evolve
	rocks	human impact – litter,	adaptation
	logs	deforestation, population	variation
	leaf litter	increase, nature reserves	inherit
	habitat		inheritance
	micro-habitat		
	living		
	dead		
	not living		
	alive		
	healthy		
	food		
	food chain		
	depend		
	source of food		
	shelter		
	grow		
	growth		
	healthy		

Science Topic	Year 1-2	Year 3-4	Year 5-6
Materials	everyday materials wood paper plastic metal glass water rock brick stone fabric material foil elastic dough rubber card cardboard clay object make/made hard/soft shiny/dull stretchy/stiff rough/smooth bendy/not bendy waterproof/not waterproof transparent/opaque absorbent/not absorbent squash twist bend stretch		properties hardness solubility transparency electrical conductivity thermal conductivity magnetism dissolve solution substance separating mixing filtering sieving reversible change burning rusting reactions irreversible change

Science Topic	Year 1-2	Year 3-4	Year 5-6
Rocks and soils		rock soil fossil organic matter grains crystals sedimentary rock	
Science Topic States of matter	Year 1-2	Year 3-4 solid	Year 5-6
		liquid gas temperature heat (heating) cool (cooling) water cycle evaporation condensation melting freezing	

Science Topic	Year 1-2	Year 3-4	Year 5-6
Earth and space	seasons		solar system
	seasonal change		planets: Mercury, Venus,
	spring		earth, Mars, Jupiter, Saturn,
	summer		Neptune, Uranus
	autumn		moon
	winter		stars
	weather		spherical bodies
	sun		rotation
	sunshine		orbit
	rain		satellite
	snow		
	sleet		
	ice		
	frost		
	fog		
	cloud		
	hot		
	cold		
	storm		
	sky		
	earth		
	night		
	day		

Science Topic	Year 1-2	Year 3-4	Year 5-6
Electricity		electricity	voltage
		simple circuit	components
		light bulb	symbols
		cell	circuit diagram
		wire	
		buzzer	
		switch	
		motor	
		battery	
		series circuit	
		conductor	
		insulator	
Science Topic	Year 1-2	Year 3-4	Year 5-6
Forces		move	gravity
		movement	air resistance
		surfaces	water resistance
		forces	friction
		push	levers
		pull	pulleys
		contact	gears
		distance	springs
		magnet	
		bar magnet	
		ring magnet	
		horseshoe magnet	
		attract	
		repel	
		poles (of magnets)	
		magnetic materials	

Science Topic	Year 1-2	Year 3-4	Year 5-6
Light		light	light sources
		dark (absence of light)	periscope
		reflect	
		shadow	
		opaque	
		mirror	
		reflective surface	
Science Topic	Year 1-2	Year 3-4	Year 5-6
Sound		sound	
		vibration	
		vibrate	
		pitch	
		volume	
		insulation	

