

# Key Vocabulary Progression in Science

## Rudston Primary School



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.

	<b>EYFS</b>	<b>Year 1-2</b>	<b>Year 3-4</b>	<b>Year 5-6</b>
<b>Working Scientifically</b>	Science Experiment Fair Find out Explain Reason Why Change	Question, find out, observe, describe, test, compare  Measure, length, height, mass/weight, time, temperature  Record, results, table, chart, pictograph, block graph, bar chart  experience observe changes patterns grouping sorting classifying compare identify (name) data measure record equipment	develop enquiry practical enquiry fair test comparative test relationships conclusion accurate thermometer data logger estimate data diagram key (identifying) table chart bar chart results predictions explanation reason	variables evidence justify accuracy precision scatter graphs bar graphs line graphs argument (science) causal relationship

		<p>questions test investigate explore magnifying glass / hand lens same different</p>	<p>similarity difference question evidence information findings criteria values properties characteristics</p>	
<p><b>Animals including humans</b></p>	<p>Alive Animal Food Unwell Smell Touch Hear Taste See Senses</p>	<p>names of common animals: fish, amphibians, reptiles, birds mammals carnivores herbivores omnivores</p> <p>human body senses: see, hear, feel, smell, taste,</p> <p>habitat local environment pet wild animal insect minibeast food eat head neck body arms legs ears eyes nose</p>	<p>nutrition diet skeleton musclesheart protection support movement bones skull shell digestive system stomach small intestine large intestine oesophagus types of teeth: molar, pre-molar, incisor, canine saliva</p>	<p>puberty gestation period circulatory system heart lungs blood vessels blood lifestyle disease water transportation nutrient transportation oxygen air breathing exercise diet drugs</p>

		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		
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<p><b>Plants</b></p>	<p>Plant Seed Grow Flower Leaf</p>	<p>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</p>	<p>functions nutrients nutrition air transport (water) life cycle pollination seed formation seed dispersal reproduce fertiliser</p>	
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<p><b>Living things and their habitats (including evolution and inheritance)</b></p>		<p>pond garden field park woodland sea shore river ocean forest rainforest stones rocks logs leaf litter habitat micro-habitat living dead not living alive healthy food food chain depend source of food shelter grow growth</p>	<p>environment non-flowering plants ferns mosses flowering plants grasses vertebrate animals: fish, birds, mammals, amphibians and reptiles invertebrate animals: snails, worms, slugs, spiders, insects human impact – litter, deforestation, population increase, nature reserves</p>	<p>life cycles reproduction life processes sexual and asexual reproduction (plants) root cuttings classification microorganisms organisms evolution evolve adaptation variation inherit inheritance</p>
<p><b>Materials</b></p>	<p>Touch Shiny Hard Rough</p>	<p>everyday materials wood paper plastic metal glass water</p>		

		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		
<b>Properties and changes of materials</b>				properties hardness solubility transparency electrical conductivity thermal conductivity magnetism dissolve solution

				substance separating mixing filtering sieving reversible change burning rusting reactions irreversible change
<b>Rocks</b>			rock soil fossil organic matter grains crystals sedimentary rock	
<b>States of matter</b>			solid liquid gas temperature heat (heating) cool (cooling) water cycle evaporation condensation melting freezing	
<b>Earth and Space</b>		seasons seasonal change spring summer autumn		solar system planets: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Neptune, Uranus. moon stars



		winter weather sun sunshine rain snow sleet ice frost fog cloud hot cold storm sky earth night day		spherical bodies rotation orbit satellite
<b>Electricity</b>			electricity simple circuit light bulb cell wire buzzer switch motor battery series circuit conductor insulator	voltage components symbols circuit diagram
<b>Forces</b>			move movement surfaces forces push	gravity air resistance water resistance friction levers

			<p>pull  contact  distance  magnet  bar magnet  ring magnet  horseshoe magnet  attract  repel  poles (of magnets)  magnetic materials</p>	<p>pulleys  gears  springs</p>
<b>Light</b>			<p>light  dark (absence of light)  reflect  shadow  opaque  mirror  reflective surface</p>	<p>light sources  periscope</p>
<b>Sound</b>			<p>sound  vibration  vibrate  pitch  volume  insulation</p>	
<b>Seasonal changes</b>	Weather Seasons	<p>summer  spring  autumn  winter  sun  day  moon  night  light  dark</p>		

		cold hot/warm		
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