

**Park Road Community Primary School - Science Vocabulary**

Stage 1 = vocabulary the children should already be familiar with from previous learning

Stage 2 = topic specific vocabulary that the children must learn in order to have secure scientific knowledge of their new topic

Stage 3 = the skills children must demonstrate while applying their Stage 2 vocabulary (taken from the National Curriculum)

**Year 1 Science Assessment Vocabulary**

Topic: Polar Places (animals including humans and materials)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
animals, ice, snow, material hot, warm, cold	habitat polar arctic antarctic freeze frozen carnivore omnivore herbivore animals birds reptiles mammals amphibians waterproof flexible	Identify Name Describe Compare Group Ask Perform tests Identify and classify

Topic: Who Am I? (Animals including humans)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
humans, animal, body	ankle backbone, cheek, ear lobe, elbow, eye socket, feet, hips, joints nails, neck, ribs, thigh, tongue, vertebrae, wrist	Identify Name Describe Compare Draw Label

Topic: Plants and Animals

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
Flower, plant, animal, tree	amphibians animal birds carnivore deciduous coniferous fish flowers habitat herbivore mammal omnivore plant reptile stem	Identify Name Describe Compare Ask Observe Perform tests Identify and classify Gather and record Use Suggest answers

Topic: Celebrations (Materials)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
Object, material	candle, dark, eat, food, light, light source, loud, music, opaque, plant, quiet, shadow, sound, translucent, transparent, vibrate	Say Distinguish between Identify Describe Perform Observe Identify Classify Gather Record Use information

Topic: On Safari (Animals including humans)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
animals, humans, skeletons	abdomen animal antennae body exoskeleton food chain habitat head insect invertebrate legs move observe thorax vertebrate	Name Identify Describe Compare Ask Identify Classify Gather Record Use information

Topic: Holidays

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
animals, holidays, beach, seaside, sea, sun	animal beach crab fish habitat litter pollution rock pool rubbish sea shore shell sunglasses sun screen sunburn	Name Identify Describe Compare Distinguish between Group together Ask questions Use observations Suggest answers

**Year 2 Science Assessment Vocabulary**

Topic: Healthy Me (Animals Including Humans)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
food, healthy, unhealthy, exercise	air disease exercise food germs healthy hygiene hygienic	Describe Identify Compare Observe Gather and record Perform tests Use observations Suggest answers

Topic: Little Masterchefs (Animals Including Humans)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
food, healthy, unhealthy	air balanced diet bread diet food fruit healthy hygiene ingredients vegetables water	Find out Describe Identify Compare Observe Classify Gather and record Perform tests Use observations Suggest answers

Topic: Living things and their habitats

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
Animal, human, plant, alive, dead, hot, warm, cold	alive animal carnivore dead difference food chain habitat herbivore living micro-habitat omnivore plants predator prey	Explore Compare Identify Describe Name Ask Observe Perform Identify and classify Use observations Suggest answers Gather and record

Topic: Plants

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
Green, spread, plant	bulbs germinate germination grow light plants seeds temperature water	Observe Describe Find out Ask Observe Perform Identify and classify Use observations Suggest answers Gather and record

Topic: Materials Monster (Materials)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
material, opaque, shadow, translucent, transparent, vibrate	bend fabric flexible material metal opaque plastic properties rock shiny squash stretch translucent transparent twist wood metal plastic glass brick paper cardboard rigid	Identify Compare Find out Observe Perform Identify and classify Use observations Suggest answers Gather and record

Topic: Squash, Bend, Twist, Stretch (Materials)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
material, opaque, shadow, translucent, transparent, vibrate	bend direction force move pull push squash squeeze stretch twist	Find out Observe Perform Identify and classify Use observations Suggest answers Gather and record

**Year 3 Science Assessment Vocabulary**

Topic: Food and our bodies (Animals Including Humans)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Human, pull, move	balanced biceps carbohydrates contract diet exoskeleton femur humerus joint muscle nutrients protein relax skeleton triceps vertebrate	Identify Gather Record Classify	Present Record Report

Topic: Plants

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
bulbs germinate germination grow light plants seeds temperature water	carpel flower geminate leaves life cycle nutrients ovary ovule petal photosynthesis pollen pollination root root hairs seed dispersal sepal stamen stem style stigma veins	Identify Describe Explore Investigate Ask Set up Make observations Report	Gather, record, classify, present Draw conclusions Make observations Suggest improvements Identify Use evidence to answer questions

Topic: Rocks and Fossils

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Rock, stone, pebble, hard, soft, soil	crystals extinct fossil humus igneous impermeable magma metamorphic mineral palaeontologist palaeontology permeable rock sediment sedimentary soil	Compare Group Describe Recognise Ask Set up Make observations	Take measurements Report Gather Record Classify Present

Topic: Light and Shadow

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Light, dark, sun, lightbulb, shadow, see	description dull explanation light source mirror observation opaque reflect shadow shiny translucent transparent	Recognise Notice Find patterns Set up	Make observations Report Draw conclusions Make predictions

Topic: Forces and magnets

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
Push, pull, twist, strong, weak	attract compass contact iron magnet magnetic magnetic north non-contact non-magnetic pole prediction repel	Compare Notice Observe Group Describe Predict Ask Set up Make observations Take measurements Report Gather Record Classify Present Make observations Draw conclusions

Topic: The Nappy Challenge

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
materials, investigate, waterproof	absorb absorbent cloth cotton disposable elastic faeces liquid material nappy plastic properties urine velcro waterproof wood pulp	Make observations Take accurate measurements Gather, record, classify and present data Ask relevant questions Use results Set up Use evidence Answer questions Draw simple conclusions Make predictions

**Year 4 Science Assessment Vocabulary**

Topic: Electricity

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary
Danger, electric, wire	appliances battery bulb buzzer cell circuit components electricity conductor insulator mains metal rechargeable series circuit switch terminal wire	Identify Construct Recognise Ask Gather Record Classify Present Draw

Topic: Animals including humans

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Eating, food, drink, healthy, diet, teeth	anus canine carnivores decay digestion enamel energy herbivore incisor intestine large intestine molar mouth nutrients oesophagus omnivore small intestine stomach	Describe Identify Construct Ask Set up Make observations Take measurements Report	Gather Record Identify Present Make observations Draw conclusions Use evidence

Topic: Living things and their habitats

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
alive animal carnivore dead difference food chain habitat herbivore living micro-habitat omnivore plants predator prey	bird centipede classify fish flowering plant habitat insect invertebrate keys mammal organism reptile vertebrate	Recognise Explore Use classification keys Group Ask Set up Make observations Take measurements	Report Gather Record Classify Present Make observations Draw conclusions

Topic: States of Matter

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Heat, cool, frozen, melting, water, ice, steam, material	boiling boiling point condense condensation condensing evaporate evaporation freeze freezing point gas liquid matter material melting melting point solid temperature thermometer water cycle	Compare Group Observe Identify Ask Set up Record findings	Gather, record, classify and present data Make observations Draw conclusions Report Make predictions Identify Use evidence

Topic: Sound

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Instrument, music, noise, ear, hear	decibels pitch sound sound source vibrate vibration vibrating volume	Identify Recognise Find patterns Ask relevant questions Set up Make observations Take accurate measurements	Gather, record, classify and present data Record findings Report Draw conclusions Make predictions Identify Use evidence

Topic: The Big Build

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Danger, electric, wire	build bridge construct construction structure tower	Ask relevant questions Set up Make observations Take accurate measurements Gather, record, classify and present data	Record findings Report Draw conclusions Make predictions Identify Use evidence

### Year 5 Science Assessment Vocabulary

Topic: Let's Get Moving (Forces)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
push, pull, movement, stop	air resistance force meter friction gravity newton magnetism reliable resistance weight	Explain Identify Recognise Plan Take measurements	Use test results Make predictions Report Present Identify

Topic: Circle of Life

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
baby, toddler, child, teenager, adult	asexual reproduction bulb female fertilisation gestation larva male metamorphosis ovary pistel pollen pollinate pollination sperm	Describe Plan Take measurements Use test results	Make predictions Report Present Identify



Topic: Living things and their habitats

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Animals, plants, life, death, born, grow, alive	adolescence adolescent arthritis gestation period life expectancy puberty teenager	Describe Report Present	Record Plan

Topic: Material World

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Heat, electricity, material, mix	dissolve elastic electrical conductor evaporate filter flexible hard insoluble mixture plastic resistant rigid soluble solution solvent thermal conductor	Compare Group Know Describe Use knowledge to decide Give reasons Demonstrate Explain Plan	Take measurements Record data and results Use test results Make predictions Set up Report Present Identify

Topic: Out of This World

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Planets, space, Earth, stars, astronaut, rocket	daytime geocentric heliocentric night-time orbit plant solar system star sun time zone	Describe Use ideas to explain Plan Take measurements Record data and results	Use test results Make predictions Set up Report and present findings Identify

Topic: Amazing Changes (Properties and changing materials)

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
materials, changes	acid burning irreversible material reaction reversible rust	Demonstrate Explain Plan Take measurements Use results	Make predictions Record Report Present Identify

## Year 6 Science Assessment Vocabulary

Topic: Classifying Living Things

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Plant, animal, types of animals, flowers, habitat, alive	amphibian bacteria classification fungi invertebrate kingdoms mammal microbe mould photosynthesis species vertebrate	Describe Give reasons Classify Plan Take measurements Use results	Make predictions Record Report Present Identify

Topic: Animals including humans

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Diet, exercise, food, healthy, water	addiction artery atrium blood capillaries carbon dioxide deoxygenated exercise heart lungs oxygen pulse respiration vein ventricles	Identify Name Describe Recognise Plan Take measurements	Make predictions Record Report Present Identify Use results

Topic: Evolution and Inheritance

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Family, parents, ancestors, birth, living things, plants, animals	adaptation dinosaur evolution fossil inheritance inherited natural selection prehistoric trait variety	Recognise Identify	

Topic: Light

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Light, dark, shadow, reflect, see, Sun	eye image light mirror rays reflect reflection shadow straight sun travel	Recognise Use ideas to explain Explain Gather and record Plan Take measurements Use results	Make predictions Record Report Present Identify

Topic: Electricity

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
Wires, bulbs, electricity, flow, battery	battery cell circuit complete current electrons filament fuse resistor symbol variable	Associate Compare Give reasons Use symbols Represent Plan	Take measurements Record Use results Report Present Identify

Topic: The Titanic

Stage 1 – Known Words	Stage 2 – Topic Specific	Stage 3 – Demonstrator Vocabulary	
float, sink, weight	buoyancy density float hypothermia iceberg sink thermal insulation titanic upthrust	Plan Take measurements Record	Report Present