



WOORE PRIMARY & NURSERY SCHOOL

Science Vocabulary

Area of Science	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Plants	<p><u>Vocabulary</u></p> <p>Words relating to plants: branch, flower, root, stem, (stalk), seeds, bulb, seedlings, plants, leaf, leaves, weed, Common, garden, wild, tree, evergreen, deciduous, part, grow, growth, vegetable, tree, grass, plant (verb), blossom, (catkin), fruit, seed, trunk, bud, opening (buds).</p> <p>Children should also be encouraged to identify and learn the names of particular plants and trees in their local area, e.g. including but not exclusively, oak, ash, beech, rose, daisy, dandelion, tulip etc.</p>	<p><u>Vocabulary</u></p> <p>Words relating to plants: mature, germination, growth, survive, healthy, shoot, seedling</p> <p>Words relating to growth: water, light, (suitable) temperature, warmth, grow, healthy, cold, dark, wither, dry, limp, dry, green, yellow.</p>	<p><u>Vocabulary</u></p> <p>Words relating to plant parts: Function, job, role, part, root, stem, trunk, (bark) leaves, flowers, branch, (stalk), seeds, bulb, seedlings, petal.</p> <p>Words relating to plant growth: water, light air, growth, nutrients, soil, fertilizer, needs, (requirements), grow, growth, healthy, transported, conditions, damp, wet, dry, dark, light, hot, warm, cool, cold, (use comparatives e.g. hot, hotter, hottest) space/room (to grow).</p> <p>Words relating to plant life cycle: life cycle, stage, pattern, seeds, fruit, berry, pollinate, seed formation, pollination, seed dispersal,</p>			

<p>Animals including Humans</p>	<p><u>Vocabulary</u></p> <p>Words relating to human senses : Sense, eye, sight, see, ear, hearing, hear, scent, smell, nose, skin, touch, feel, texture, taste, tongue.</p> <p>Words for parts of the body of humans and other animals: (external), head, neck, elbow, knee, face, ears, eyes, eyebrow, eyelash, hair, mouth, lips, teeth, tongue, skin, hand, fingers, hip, waist, chest, nostril, nose, cheek, chin, feet, toes, shoulder, fingernails, leg, wing, arm, beak, paw, fur, feather, tail, scales, fin, claws, ankle, hind, fore, whisker.</p> <p>Words related to animal classification: Fish, amphibian, reptile, bird, mammal, human, animal, pet, habitat, environment, carnivore, herbivore, omnivore,</p> <p>Children should also be encouraged to identify and learn the names of particular wild and domestic animals in</p>	<p><u>Vocabulary</u></p> <p>Words relating to humans/animals (life cycle): Offspring, baby, toddler, child, teenager, adult, elderly person, young, old, grow, growth. Examples of animal life cycles including but not exclusively: Egg, chick, chicken; egg, caterpillar, pupa, butterfly; spawn, tadpole, frog; lamb, sheep, kitten, and cat: puppy, dog; calf, cow; foal, horse.</p> <p>Words relating to humans/animals (basic needs): Exercise, health, healthy, hygiene, clean, wash, water, food, air, right amounts (of foods). Fruits, vegetables, meat, fish, eggs, beans, dairy, milk, fat, oil, sugar, balance. (nutrition and named food groups are introduced in Y3 so avoid protein, carbohydrates etc. here)</p>	<p><u>Vocabulary</u></p> <p>Words relating to nutrition : nutrition, nutrients, food, right type, right amount, food type, food group, carbohydrate, protein, vitamins, minerals, fat, diet, dietary, dietary fibre, sugars, fats, oils, water, balance, balanced diet, healthy, less healthy, meals.</p> <p>Words for parts of the body of humans and other animals: internal, skeleton, muscles, support, protection, movement, skull, ribs, pelvis, shoulder blade, spine/vertebrae, joints, Sockets, rotate, bend, bones, tendons, vertebrate, invertebrate, (external skeleton).</p> <p>Words related to animal classification: Vertebrate, invertebrate.</p>	<p><u>Vocabulary</u></p> <p>Words relating to digestion : digestive system, mouth, teeth, (milk teeth), (root), (jaw), canines, incisor, molar, pre-molar, tooth decay, saliva, (stomach acid) tongue, cut rip, tear, chew, grind, oesophagus, stomach, small intestine, large intestine, rectum anus</p> <p>Words related to food chains: carnivore (carnivorous) , herbivore (herbivorous) , omnivore (omnivorous), food chain, life cycle, producer, consumer, predator, prey.</p>	<p><u>Vocabulary</u></p> <p>Words relating to human development : Change, develop, development, grow, age, stages, timeline, puberty, gestation periods, mass, length.</p> <p>words related to health and lifestyle: nutrients, water, diet, (choice), exercise, drugs, medicines, Lifestyle, impact, health, harm, harmful.</p>	<p><u>Vocabulary</u></p> <p>Words related to circulatory system: function, internal organ, organ, circulatory system, (respiratory system), heart, (atrium, chamber), blood, (red blood cells, white blood cells, plasma, platelets, injury, scab, repair), blood vessels, (capillaries, veins, arteries), pumps, oxygen, carbon dioxide, lungs, (breathe), (pulse, pulse rate, heartbeat, increase, resting)</p>
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	each group e.g. including but not exclusively, cat, fox, rabbit, badger, elephant, whale, blackbird, parrot, eagle, chicken, cod, ray, clown fish, stickleback, frog, newt, lizard, rattlesnake etc.					
Materials	<p><u>Vocabulary</u></p> <p><i>Names of materials:</i> Metal, plastic, wood, paper, glass, clay, rock, fabric, sand, water, brick, paper, elastic, fabric (and individually named fabric e.g. cotton, wool, leather, polyester, linen, denim) foil, cardboard, tissue paper,</p> <p><i>Words used to describe materials:</i> hard, soft, rough, smooth, shiny, dull, magnetic, transparent, bendy, not-bendy, waterproof, not-waterproof, absorbent, not-absorbent, strong, stretchy, stiff, opaque, transparent</p>	<p><u>Vocabulary</u></p> <p><i>Words relating to describing materials:</i> <i>Reflective, non-reflective, transparent, opaque, rigid, flexible, strong, weak.</i></p> <p><i>Words relating to materials uses:</i> Suitable, unsuitable, property, properties, best, purpose, job.</p> <p><i>Words relating to material changes:</i> Object, change, squash, squashing, bend, bending, twist, twisting, stretch, stretching.</p>			<p><u>Vocabulary</u></p> <p><i>Words related to properties of materials:</i> hard (scientific definition), soft, stretchy, rigid, flexible, waterproof, absorbent, strong/weak, rough, smooth, reflective, non reflective, transparent, opaque, Translucent, soluble, insoluble, magnetic, non-magnetic, conductor, insulator (electrical).</p> <p><i>Words related to changing materials:</i> solubility, melting, states of matter, solid, liquid, gas, change state, dissolve, solution, (soluble), insoluble, (solute, solvent, particle), mix/mixture, filtering, sieving, evaporating, (residue)</p>	

					condensing, reversible changes, new material, not usually reversible, (irreversible) burning, rusting, (gas given off)	
Seasonal Changes	<p><u>Vocabulary</u></p> <p>Words relating to seasons: spring, summer, autumn, winter, change, year, month, weather, light, dark, day (day length), holidays, festivals (by season), sunrise, sunset</p> <p>Words relating to weather: chart, forecast, symbol (weather symbol), cold, warm, hot, freezing, (temperature), snow, ice, rain, storm, thunder, wind, windy, wet, dry, sun, sunny, umbrella, raincoat, sunglasses, sun cream, hat, wellington boots, coat, scarf, hat, sandals.</p>					
Living things and their Habitats		<p><u>Vocabulary</u></p> <p>Words relating to living things: living, alive, dead, never alive, healthy,</p> <p>Words relating to habitats: Live, habitat, micro-habitat (and examples e.g. under a leaf, under a stone or log) home, environment, suited,</p>		<p><u>Vocabulary</u></p> <p>Words relating to classification: variety, environment, habitat, fish, amphibians, reptiles, mammals, birds, vertebrates, invertebrates (e.g. slugs, snails, worms, spiders, insects), flowering plants, grass, non-flowering</p>	<p><u>Vocabulary</u></p> <p>Words relating to plant life cycles: life cycle, variety, environment, reproduction, sexual, asexual, germination, pollination, seed formation, seed</p>	<p><u>Vocabulary</u></p> <p>Words relating to classification: classification system, organism, micro-organism, (fungi, mushrooms), kingdoms (related to plants and animals), (finer Linnaean groupings e.g. of invertebrates : arachnid,</p>

		<p>needs, (basic needs) satisfy, provide (provide for), provides, depend (on each other), variety, food, food chain, consumer, predator, prey, source (of food) water, air, shelter, safety, conditions (of habitats and micro-habitats e.g. wet, dry, dark).</p> <p>Names of habitats e.g. woodland, seashore, desert, rainforest etc.</p>		<p>plants, mosses, ferns.</p> <p>Words relating to the environment: environment, habitat, local, danger, human impact, positive, negative, effects, ecology, pollution, litter, population</p>	<p>dispersal, pollen, stamen, stigma, Plantlets (e.g. spider plant), runners (e.g. strawberry plant), cutting, root cutting, tuber.</p> <p>Words relating to animal life cycles: life cycle, variety, environment, reproduction, sexual, mammal, amphibian, insect, bird, fish, reptile, eggs, live young</p> <p>Children have an opportunity to be introduced to species specific vocabulary related to life cycles e.g. words naming stages of a frog, butterfly, worm, ladybird or chicken life cycle.</p>	<p>mollusc, insect, crustacean)</p> <p>Broad grouping, sub-divisions, Carl Linnaeus.</p>
Rocks			<p><u>Vocabulary</u></p> <p>Words related to names and properties of rocks: rock, stone, pebble, boulder, soil, grains, crystals, natural material, everywhere, smooth, rough, solid, crumbly, hard, soft, texture, absorb water, let water through,</p>			

			<p>(permeable/impermeable) scratch, mark, streak, worn (away) colour.</p> <p>Names of particular rocks including but not exclusively : Marble, chalk, granite, sandstone, slate, pumice, limestone, sedimentary (although rock cycle is not required) fossils.</p> <p>Nerds related to soils: soil, earth, broken-down, dead plants, rocks, rock type, soil type, local, weather, worn away, particle (size and colour) sandy soil, clay soil, chalky soil, peat, loam, drainage, (permeable, impermeable) air spaces.</p> <p>Words related to fossils: Ancient, living, dead, plants, animals, trapped, sedimentary rock, type of rock, changed, Mary Anning, (palaeontologist).</p>			
Light			<p><u>Vocabulary</u></p> <p>Words relating to light: light, light source, names of light sources e.g. torch, Sun, bonfire., absence, dark/darkness, reflect, reflective,</p>			<p><u>Vocabulary</u></p> <p>Words relating to light: light, light source, objects, eye, see, names of light sources (e.g. torch), (names of misconceived light sources</p>

			<p>mirror, shadow, what light does (behaves) block, direct/ direction, distance, transparent, Opaque, translucent.</p> <p>Words related to safety: Sun, danger, look, directly, protect, safety, safe, sunglasses, sun cream, sun hat, shade.</p>			<p>e.g. moon, mirror), dark/darkness, reflect, reflective, mirror, shadow, shape, cast, travel, straight line, block, absorb, direct/ direction, transparent, opaque, translucent, periscope, shadow puppet, (rainbows, colours, refraction in water - no explanations are needed)</p>
Forces			<p><u>Vocabulary</u></p> <p>Words relating to forces: Push, pull, pulling, pushing, move, contact, touching, contact force, distance/non-contact force, act at a distance.</p> <p>Words relating to magnets: shape, bar, horseshoe, ring, button, strength, weak, strong, attract, repel, pole, magnetic, magnetic materials, non-magnetic material, north, south, metal, iron, steel.</p>		<p><u>Vocabulary</u></p> <p>Words relating to forces: gravity, fall, air resistance, Earth, water resistance, friction, moving surfaces, (slowing down), parachutes, move, speed up, slow down, stop, (streamlined, streamlining) shape, weight (N), mass.</p> <p>Words relating to simple machines: mechanisms, levers, pulleys, gears, force, springs, Transfers.</p>	
States of Matter				<p><u>Vocabulary</u></p> <p>Words related to states of matter: solid, liquid, gas (and named examples of each e.g. iron, water, oxygen, air)</p>		

				<p>Powder, grains, granular, crystals, change.</p> <p>Words related to changing states: heat, temperature, Celsius, °C, change state, ice, water, water vapour, heated, heating, cold, cooling, cooled, melt, freeze, (solidify), melting point, (molten), boil, boiling point.</p> <p>Words related to change in the water cycle: Evaporate, evaporation, condense, condensation, precipitation, water cycle</p>		
Sound				<p><u>Vocabulary</u></p> <p>Words relating to sound: vibrate, vibration, sound, source of sound, noise, travel, (solids, liquids, gases - medium), pitch, tune, high, low, volume, loud, quiet, fainter, muffle, strength, insulate, insulation, string, length, thickness, tension, column of air, tuned percussion, percussion instruments (named), stringed instruments (names) brass and woodwind instruments (named)</p>		

Electricity				<p><u>Vocabulary</u></p> <p>Words relating to electricity: electricity, electrical, mains, battery, appliance, device, plug, socket, electrical circuit (the use of the term series is not necessary yet), flow, complete circuit, circuit diagram, (circuit symbol - not required here as this is taught in Y6), open, closed, break the circuit, metals, conductor, insulator, materials, gap, switch, (positive/Negative terminal) (connect, connection), loose connection.</p>		<p><u>Vocabulary</u></p> <p>Words relating to electricity: electricity, appliances/device, electrical circuit, complete circuit, circuit diagram, circuit symbol, components, cell, battery, positive/negative, terminal, connect/connection, loose connection, (short circuit), wire, crocodile clip, bulb, lamp, bright/dim, switch buzzer, volume, (motor), fast(er)/slow(er), conductor, insulator, metal/non-metal, voltage, (current, resistance)</p>
Earth & Space					<p><u>Vocabulary</u></p> <p>Words relating to Earth and space: Earth, planets, Sun, star, solar system, Moon, celestial body, sphere/spherical, rotate/rotation, spin, axis, apparent, move, movement, apparent, (stationary), night and day, Mercury, Venus, Mars, Jupiter, Saturn,</p>	

					Uranus, Neptune, (Pluto), ('dwarf' planet), orbit, (path), revolve, (year) geocentric model, heliocentric model, shadow clocks, sundials, astronomical clocks (e.g. Stonehenge), (East), (West), shadows, sunrise, mid-day, sunset, (horizon)	
Evolution & Inheritance						<u>Vocabulary</u> Words relating to evolution and inheritance: evolution, changes, time, (millennia), suited/suitable, environment, suited, best suited, adapted/adaptation, parents, offspring, not-identical, similar, characteristics, vary/variation, inherit/inheritance, (selective breeding), Fossils, fossil record, Charles Darwin, Alfred Russell Wallace.