



Science Vocabulary at Heartwood.

Vocabulary is a key focus in our making a difference curriculum, all children will develop their skills to enable them to confidently and accurately use the vocabulary to analyse and make reasonable judgement of the past.

Year	Key Vocabulary
EYFS	<p>Animals, living things and their habitats: Pets, dog, cat, rabbit, guinea pig, African land snail, hamster, vets, care, food, water, exercise, sleep Jungle, lion, elephant, tiger, monkey, Habitat, animal homes Nocturnal, hibernate Life cycle- egg, chick, chicken</p> <p>Humans: Body, head, leg, arm, eyes, ears, mouth, back, stomach, shoulders knees, toes Teeth, cavity, decay, toothbrush, tooth paste, dentist, Healthy, unhealthy, sugar</p> <p>Plants: Leaf, stem, petals, soil, water, light, air Seed, bulb, shoot Variety of flower names</p> <p>Everyday Materials: Materials Wood, plastic, metal, paper, wool Rock, fossil Changes Melt, ice, water, heat/warm Solid, liquid Sink, float Metallic, non- metallic</p> <p>Seasonal Changes: Seasons Autumn, summer, spring, winter Weather, sun, rain, fog, frost, rain, cloudy, windy, storm Cold, warm, hot</p>
<u>Year 1</u>	<p>Animals, living things and their habitats: Examples of mammals, reptiles, birds and amphibians. Carnivore, herbivore, omnivore Claws, paws, leg, elbow, joints, head, nose, wings, beak, whiskers, fangs, teeth, tail, paw</p> <p>Humans: Body, skeleton, bones, joints, organs elbow, ankle, jaw, wrists, and more specific areas of the body Physical features, eyes, hair, height, skin colour, chromosomes Senses- sight, touch, taste, smell, hear Growth, baby, adult, elderly</p> <p>Plants: Deciduous and evergreen trees and Examples these common to Britain</p>

	<p>(eg. Oak, ash, sycamore, horse chestnut, elder, pine, hawthorn, yew, lime, cherry, birch, beech, willow)</p> <p>Example of British plants eg. Daffodil, primrose, bluebell, tulip, snowdrop, dandelion, crocus, rose, wild</p> <p>Anatomy, Sunflower, petals, stem, roots, flower, pollen, disc floret (inner petals), ray floret (outer petals), inflorescence (flower head)</p> <p>Everyday Materials:</p> <p>Object, materials, properties</p> <p>Wood, plastic, glass, paper, water, metal, rock, brick, fabric, elastic, foil, rubber, wool, clay</p> <p>Hard/soft, bendy/not bendy, rough, bumpy, smooth, stretchy, squashy, brittle, stiff, rigid, shiny, dull, waterproof/not waterproof, absorbent/ not absorbent. Opaque, transparent, absorbent</p> <p>Seasonal Changes:</p> <p>Spring- Spring equinox, baby animals</p> <p>Summer</p> <p>Autumn- fungi, migration, hibernation, deer, squirrel, swallow, osprey, woodmouse, dormouse, worm, salmon, goose, starlings, murmur ate, hedgehog, bat</p> <p>Winter- adapt, winter equinox</p> <p>Sun, sunrise, day, light</p> <p>Moon, sunset, night, dark</p> <p>Weather, wet, dry, wind</p> <p>Temperature, hot. Cold, thermometer, degrees Celsius</p>
<u>Year 2</u>	<p>Animals including humans:</p> <p>Survival, water, air, food</p> <p>Reproduction, growth, adult, baby, offspring, Cub, baby</p> <p>Exercise, hygiene</p> <p>Organs, Heart, lungs, liver, kidneys, brain, small and large intestine, bladder</p> <p>Plants:</p> <p>Water, light, temperature, growth</p> <p>Germination, reproduction</p> <p>Everyday Materials and their uses:</p> <p>Squashing, bending, twisting</p> <p>Plastic, cotton, wool, cardboard</p> <p>Recycling, reusable, sustainable</p> <p>Melting, solid, liquid, gas, changing, heat, temperature, degrees</p> <p>Global warming</p> <p>Living things and their habitats:</p> <p>Living, dead</p> <p>Habitat, microhabitat, woodland, seashore, ocean, pond, desert, polar regions, artic</p> <p>Herbivore, carnivore</p> <p>Energy, food chain, predator, prey</p>
<u>Year 3</u>	<p>Animals including humans:</p> <p>Nutrition/ nutrients</p> <p>Carbohydrates, including sugars, protein, vitamins, minerals, fibre, fat, water</p> <p>Support, protection, movement</p>

	<p>Skeleton, endoskeleton, exoskeleton, vertebrate, invertebrate, bones, skull, joints</p> <p>Muscles, contract, relax, antagonistic</p> <p>Plants:</p> <p>Air, light, water, nutrients, soil</p> <p>Reproduction</p> <p>Transportation- nutrients, minerals, xylem vessels, transpiration</p> <p>Lifecycle- flower, germination, growing and flowering, pollination, pollen, anther, stamen, stigma, fertilisation, style, ovary, seed formation, seed dispersal</p> <p>Function</p> <p>Adapted- cacti, snowdrop, air plant, water lily</p> <p>Rocks:</p> <p>Geologists</p> <p>Natural, man-made</p> <p>Sedimentary- sandstone, limestone, chalk</p> <p>Igneous- granite, marble</p> <p>Metamorphic- slate</p> <p>Crystals</p> <p>Permeable/absorbent, impermeable</p> <p>Soils- organic matter, clay, sandy, stony</p> <p>Fossils- trace/body/ replacement sediment, decay, mould, minerals, cast, weathering, erosion, palaeontologist</p> <p>Light:</p> <p>Light, source, dark, shadows</p> <p>Mirror, reflect, reflective, reflection</p> <p>Absorb</p> <p>Block</p> <p>Shiny/dull, smooth/rough, transparent/ translucent/ opaque</p> <p>Forces and Magnets:</p> <p>Force, action, interaction, push, pull</p> <p>Motion</p> <p>Contact, non-contact</p> <p>Magnetic, poles, attract, repel</p> <p>Friction</p>
<p><u>Year 4</u></p>	<p>Animals including humans:</p> <p>Mouth, tongue, teeth, oesophagus, stomach, small intestine, large intestine</p> <p>Carnivore, herbivore, omnivore</p> <p>Canine, incisor, pre-molar,</p> <p>Black caiman, thick scaled skin, amazon eco system, predator, skin colouration, camouflage, narrow snout, osteoderms</p> <p>Living things and their habitats:</p> <p>Vertebrates (mammals, fish, reptiles, birds, amphibians)</p> <p>Invertebrates (snails, slugs, worms, spiders, insects)</p> <p>Environment, habitats</p> <p>States of Matter:</p>

	<p>Solid, liquid, gas Particles Evaporation Condensation Freezing Melting/heating Temperature Changes of state Sound: Vibration, sound wave, sound source Pitch Volume, decibels Sound meter Electricity: Cell, battery, bulb, switch, buzzer Circuit, series Conductors, insulators</p>
<u>Year 5</u>	<p>Animals including humans: Growth, development, puberty, ageing Womb, gestation, embryo, foetus, baby, toddler, teenager, adult, elderly Properties and changes of materials: Hardness Solubility, dissolving Transparency Conductivity Magnetic Filter Evaporation Mixing Living things and their habitats – including plants: Mammal, insect, amphibian, bird Sexual and asexual reproduction, sperm, egg, fertilisation, offspring, development Forces: Newtons Gravity Air resistance Water resistance Friction Levers, pulleys, gears Earth and space: Earth, sun, moon Axis, rotation, day, night, phases of the moon Star, constellation</p>
<u>Year 6</u>	<p>Animals including humans: Circulatory, heart, blood, vessels, veins, arteries, oxygenated, deoxygenated, valve Exercise</p>

	<p>Respiration Xylem, oxygen, carbon dioxide, cell membrane</p> <p>Living things and their habitats including plants: Classification Vertebrates, invertebrates Microorganisms Mammals, birds, fish, amphibians, reptiles, insects</p> <p>Light: Refraction, reflection Spectrum, rainbow, colour</p> <p>Electricity: Cell, battery, bulb, switch, buzzer Circuit, series Conductors, insulators Amps. Volts</p> <p>Evolution and inheritance: Adaptation, habitat, environment, species, dominant, extinct, natural selection Sexual and asexual reproduction, off spring Characteristics Creation Hominids Fossils</p> <p>Working scientifically – preparation for KS3: Chemicals, toxic, hazards, safety Periodic table, elements Acid, alkaline, PH level</p>
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