|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Tier 2 Vocabulary** | | | | | | | | **Tier 3 Vocabulary** | | | | | | | | | |
| Academic vocabulary that appears across topics and content areas  (not commonly used in conversation but essential for comprehension) | | | | | | | | Subject specific academic language | | | | | | | | | |
| **Reception Vocabulary** | | | | | | | | | | | | | | | | | |
| Working Scientifically | | | | | | | | look, see, hear, read, describe, similar, different, change, understand, world, science, scientist, observe | | | | | | | | | |
| Animals including Humans | | | | | | | | face, hair, leg, knee, arm, elbow, shoulder, back, head, toes, ear, hands, eye, fingers, mouth, nose, animal, human, living things, life, alive, wild, pet, similar, different, change, activity, healthy, food, nocturnal | | | | | | | | | |
| Plants | | | | | | | | plant, leaf, tree, petals, trunk, fruit, branch, roots, leaves, bulb, flowers, seed, stem, growth, decay, wild, common, life, alive, living things, water, care for, earth/soil, wild, pot, soil | | | | | | | | | |
| Living Things and their Habitats | | | | | | | | similarity, difference, patterns, change, place, living things, plant, animal, human, care for, look after, habitat, environment, litter, pollution | | | | | | | | | |
| Materials | | | | | | | | material, hard, soft, wood, metal, plastic, paper, cardboard, waterproof, ice, melt, freeze, steam, rock, heavy, light, rough, smooth, shiny, dull, fabric, glass | | | | | | | | | |
| Light, Sound and Electricity | | | | | | | | light, dark, shine, sound, music, instrument, noise, loud, quiet, soft, volume | | | | | | | | | |
| Forces, Earth and Space | | | | | | | | force, push, pull, turn, float, sink, magnetic, magnet, repel, attract, world, sun, moon, Earth, night, day, planet, space, telescope, star | | | | | | | | | |
| Seasonal Changes | | | | | | | | seasons, weather, nature, change, day, night, spring, summer, autumn, winter, Sun, dark, warmer, colder, plants, animals, harvest, holiday, light, moon, environment | | | | | | | | | |
| **Reception Non-negotiable Vocabulary** | | | | | | | | | | | | | | | | | |
| **Autumn 1** | | **Autumn 2** | | **Spring 1** | | | | **Spring 2** | | **Summer 1** | | | | | **Summer 2** | | |
| Happy to be Me! | | Time Detectives | | Environments and Habitats | | | | How Does Your Garden Grow? | | Bugs Life | | | | | Around the World in a Term | | |
| season/natural/nature / growth/healthy | | experiment/predict/space/ materials/ | | food/farm/growth/ animals/ice/ melt/liquid/ solid | | | | plants/sunlight/soil/bean/ roots/leaf | | pollen/mini-beast/snail/caterpillar, life cycle, butterfly | | | | | float/sink/predict/investigate/ weather | | |
| **National Curriculum Unit**  **Animals including Humans (Biology)** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
| Tier 2 | | Tier 3 | | Tier 2 | | | | Tier 3 | | Tier 2 | | | | | Tier 3 | | |
| Backbone  Environment  Temperature  Wild  Balance/d  Senses  Balanced  Diet  Bar chart  Bones  Disease  Life-cycle | Healthy  Hygiene  Medicine  Muscles  Pictogram  Survive  Treatment  Features  Unique  Fish  Bird | Carnivores  Gills  Cold-blooded  Herbivore  Invertebrate  Omnivore  Vertebrate  Warm-blooded  Off-spring  Mammals  Amphibian  Reptile  Skeleton  Skull  Brain | | Backbone  Human  Survive  Healthy  Organ  Joints  Muscles  Contract  Unhealthy  Energy  Fats  Water  Disease  Process  Environment  Nutrients | | Relax  Protect  Bones  Connected  Knee  Ribs  Elbow  Ankle  Hip  Diet  Balanced  Hygiene  Absorb  Stomach  Nutrition | | Vertebrate/s  Mammals  Amphibian  Reptile  Endoskeleton  Femur  Exoskeleton  Invertebrates  Starchy  Skeleton  Digestive  Digested  Canine  Incisor  Premolar  Molar  Saliva  Faeces  Ingested  Classify  Food chain/web  Producer  Primary consumer  Secondary consumer | Tendons  Cranium  Pelvis  Triceps  Biceps  Spine  Protein  Carbohydrates  Vitamins  Minerals  Fibre  Omnivore  Carnivore  Herbivore  Excretion  Plaque  Enamel  Tooth decay  Intestine  Oesophagus  Classification  Habitat  Microhabitat  Organism  Predator  Prey  Tertiary consumer | Adulthood  Development  Growth  Independent  Toddler  Elderly  Adult  Teenager  Veins  Pulse  Organ  Via | | Life-cycle  Process  Mature  Organ  Rapid  Chemical  Survival  Heart  Lungs  Exercise  Function  Ventilation | | | Adolescence  Foetus  Genitals  Gestation  Puberty  Reproduction  Vertebrate  Blood vessels  Arteries  Oxygenated  Atrium  Ventricle  Vena cava  Aorta | | Hormone/al  Infancy  Menopause  Menstruation  Offspring  Respiration  Digestive system  Circulatory system  Deoxygenated  Nutrients  Oxygen  Carbon dioxide Capillaries |
| **National Curriculum Unit**  **Plants (Biology) – Years 1, 2 and 3** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
| Tier 2 | | Tier 3 | | Tier 2 | | | | Tier 3 | |  | | | | | | | |
| Branches  Bulb  Common  Herb  Petal  Roots | Stem  Seed  Trunk  Wild  Weed  Blossom | Deciduous  Evergreen  Vegetation  Veins (leaves)  Crown (tree)  Crop  Nutrients  Reproduce  Substances | | Common  Wild  Function  Life cycle  Mature  Roots  Bulb  Seed  Stem  Trunk  Branch  Healthy | | Flowering  Structure  Temperature  Petals  Pollen  Absorb  Transported  Fruit | | Deciduous  Evergreen  Climate zone  Vegetation  Germination  Carbon dioxide  Nutrients  Pollination | Stigma  Dispersed  Fertilisation  Ovule  Anther  Dissect  Fertiliser |
| **National Curriculum Unit**  **Living Things and their Habitats (Biology) – Years 2, 4, 5 and 6** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
| Tier 2 | | Tier 3 | | Tier 2 | | | | Tier 3 | | Tier 2 | | | | | Tier 3 | | |
| Common  Survive  Depend  Woodlands  Coast/Ocean/River/Pond  Desert  Source | Mini-beast  Evidence  Exist  Healthy  Shelter | Habitat  Biomes  Vegetation  Carnivore  Omnivore  Herbivore  Food chain  Microhabitat  Off-spring  Vertebrate  Invertebrate  Tundra | | Criteria  Mini-beast  Nutrition  Sensitivity  Urban | | | | Vertebrate  Invertebrate  Carnivore  Omnivore  Deciduous  Evergreen  Excretion  Food chain  Habitat  Life processes  Microhabitat | Herbivore  Biomes  Classification key  Organism  Reproduction  Respiration  Vegetation | Bulb  Function  Flowering  Life cycle  Mature  Pollen  Petal  Seed  Mini-beast  Evolve | | Structure  Transferred  Identical  Environment  Characteristics  Criteria  Energy  Adapt | | | Anther  Dispersed  Dissect  Embryo  Fertilisation  Pollination  Reproduction  Reproduce  Invertebrate  Vertebrate  Adaptation  Carnivore  Evolution  Habitat  Food chain  Omnivore  Organism  Predator  Prey | | Cell  Gamete  Germination  Metamorphosis  Ovary  Ovule  Stigma  Sexual/asexual  Classification key  Herbivore  Invertebrate  Microhabitat  Microorganism  Species  Vertebrate |
| **National Curriculum Unit**  **Materials (Chemistry) – Years 1, 2, 4 and 5** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
| Tier 2 | | Tier 3 | | Tier 2 | | | | Tier 3 | | Tier 2 | | | | | Tier 3 | | |
| Material  Object  Texture  Appearance  Glass  Metal  Plastic  Rock  Elastic  Paper  Wood  Water  Natural  Nature  Man-made  Produced  Coal  Concrete  Rubber  Steel  Plastic  Polyester  Weaving  Soaks  Curved  Substance  Purpose  Process  Squashing  Bending  Twisting | Fabric  Felt  Waterproof  Stiff  Flexible  Soft  Shiny  Rough  Bright  Bendy  Stretchy/ing  Hard  Smooth  Bumpy  Dull  Chalk  Sand  Oil  Cotton  Leather  Iron  Gold  Brick  Created  Original  Foil  Suitable  Suitability | Transparent  Opaque  Absorbent  Translucent  Properties  Recyclable | | Cooling  Freezing/freezing point  Frozen  Gas  Heating  Liquid  Melting/melting point  Process  Solid  Properties  Temperature | | | | Condensation  Evaporation  Particles  Precipitation  Vibrations  Water cycle  Water vapour  Condenses | | Electricity  Flexible  Gas  Liquid  Melting | | Process  Rate  Solid  Solution  State  Temperature | | | Circuit  Condensation  Conductor  Filtering  Insoluble  Insulator  Irreversible  Soluble  Thermal | | Dissolves  Evaporation  Magnetic  Particles  Permeable  Properties  Resistance  Reversible  Transparent  Variable  Water cycle |
| **National Curriculum Unit**  **Light and Sound (Physics) – Years 3, 4 and 6** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
|  | | | | Tier 2 | | | | Tier 3 | | Tier 2 | | | | | Tier 3 | | |
| Angle  Bright  Dark  Dim  Electricity  Reflects  Shadow  Energy | | Source  Product  Medium  Power  Transmit  Volume | | Chemical reaction  Emits  Opaque  Translucent  Transparent  Vibrations | Amplitude  Decibel  Frequency  Pitch  Sound waves | Reflection  Source  Dark  Shadow  Rays  Travel  Visible  Volume | | Electricity  Angle  Dim  Surface  Measure  Distance  Invisible | | | Opaque  Emits  Translucent  Transparent  Spectrum  Infrared  Ultraviolet  Cochlea  Auditory nerve | | Periscope  Cornea  Iris  Optic nerve  Pitch  Amplify  Ear canal  Ossicles  Anvil  Hammer  Stirrup |
| **National Curriculum Unit**  **Electricity (Physics) – Years 4 and 6** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
|  | | | | Tier 2 | | | | Tier 3 | | Tier 2 | | | | | Tier 3 | | |
| Appliance/s  Battery  Bulb  Energy  Fuel  Generate  Switch  Wires | | Buzzer  Device  Electricity  Motor  Power  Source | | Cell  Circuit  Component  Conductor | Current  Insulator  Mains  Renewable  Fossil fuels | Electricity  Energy  Devices  Force  Bulb  Buzzer  Power  Wires | | Source  Appliance/s  Switch  Battery  Motor  Fuel  Generate  Socket | | | Component  Conductor  Insulator  Cell  Resistor  Mains  Break | | Circuit  Series circuit  Resistance  Ammeter  Voltage  Current |
| **National Curriculum Unit**  **Forces (Physics) – Years 3 and 5** | | | | | | | | | | | | | | | | | |
| **KS1** | | | **LKS2** | | | | | | | | **UKS2** | | | | | | |
|  | | | Tier 2 | | | | Tier 3 | | | | Tier 2 | | | Tier 3 | | | |
| Bendy  Stretchy  Twist  Surface  Force  Opposite  Position  Push | | Magnet  Motion  Pull | | Friction  Gravity  Magnetic/non-magnetic  Magnetic field  Attract  Repel  Resistance  Poles  Metallic | | | | Attract  Force  Gear  Motion  Opposite | | Pulley  Spring  Streamlined  Surface  Mass | Friction  Gravity  Repel  Resistance  Lever  Poles  Mechanisms  Rotary/Linea | | Thrust  Newton meter  Fulcrum force  Pivot  Torque  Axis | |
| **National Curriculum Units**  **Seasons Changes, Rocks, Earth and Space, Evolution and Inheritance (Earth Science) – Years 1, 3, 5 and 6** | | | | | | | | | | | | | | | | | |
| **KS1** | | | | **LKS2** | | | | | | **UKS2** | | | | | | | |
| Tier 2 | | Tier 3 | | Tier 2 | | | | Tier 3 | | Tier 2 | | | | | Tier 3 | | |
| Months  Year  Length  Weather  Seasons  Spring  Temperature | Summer  Autumn  Winter  Daylight  Nature  Conkers | Deciduous  Evergreen  Hibernate  Migrate  Climate  Blossom | | Absorb  Grain  Imprint  Natural  Man-made  Surrounding  Volcano  Weathered | | Preserve  Pressure  Properties  Rock  Soil  Surface | | Bedrock  Decaying  Igneous  Leaf litter  Palaeontology  Permeable  Porous/non-porous  Prehistoric | Magma  Metamorphic  Mineral  Molten  Nutrients  Sediment | Planet  Shadow  Sphere/spherical  Spin  Rotation  Rotate  Seasons  Orientation  Evolve  Theory  Phases  Quarter  Atmosphere | | Star  Time zones  Universe  Solar system  Survival  Environment/al  Survive  Generations  Characteristics  Earth  Satellite  Collision  Exploration | | | Asteroid  Axis  Comet  Solar eclipse  Offspring  Breed/ing  Reproduction  Evolution  Natural selection  Inherited  Adaptation  Ancestor  Extinct  Milky way  Mercury  Venus  Mars  Jupiter Saturn Neptune Uranus  Pluto  Rover  Probe  Astronaut Geocentric  Heliocentric Orrery | | Galaxy  Gravity  Leap year  Meteorite  Orbit  Biodiversity  Biomes  Palaeontology  Fossils  Species  Inheritance  Mutation  Maladaptation  Variation  Dwarf planet  Terrestrial  Northern Lights  Aurora  Crater  Hemisphere Lunar cycle Waxing  Waning  Crescent  Gibbous Shooting star |