



### Vocabulary Progression



|                                | FS1                                                             | FS2                                                                                                                                                                                    | Y1                                                                                                                                                | Y2                                                                                                  | Y3                                                                                                                                                                                                                                                                                                                                                                         | Y4                                                                             | Y5                                                                                              | Y6                                                            |
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| Plants                         | Plant<br>Leaf<br>Flower<br>Hole<br>Dig<br>Water<br>Grow<br>Soil | Stem<br>Trunk<br>Branch<br>Root<br>Bark<br>Petal<br>Seed<br>Berry<br>Fruit<br>Vegetable<br>Bulb<br>Weed<br>Shoot<br>Die<br>Dead<br>Water<br>Light<br>Warm<br>Air<br>Space<br>Nutrients | Common<br>Wild plants<br>Garden<br>plants<br>Deciduous<br>Evergreen<br>Tree<br>Branches<br>Leaves<br>Bud<br>Flowers<br>Blossom<br>Petals<br>Stalk | Healthy<br>Suitable<br>Temperature<br>Germination<br>Reproduction<br>Shade<br>Sun<br>Warmth<br>Cool | Structure<br>Flowering plants<br>Roots<br>Function<br>Nutrition<br>Support<br>Reproduction<br>Makes its own<br>food<br>Requirements for<br>life and growth<br>Nutrients from<br>the soil<br>Room to grow<br>Needs vary<br>Fertilizer<br>Life cycle<br>Flowers<br>pollination<br>Seed formation<br>Seed dispersal<br>Photosynthesis<br>Pollen<br>Insect/wind<br>pollination |                                                                                |                                                                                                 |                                                               |
| Animals<br>including<br>humans | Names of<br>animals<br>Eggs<br>Live<br>Animal<br>Chick          | Names of<br>animals (more<br>of a range)<br>On land<br>In water<br>Wet                                                                                                                 | Common<br>animals<br>Fish<br>Amphibians<br>Reptiles<br>Birds                                                                                      | Offspring<br>Adults<br>Survival<br>Water<br>Food<br>Air                                             | Nutrition<br>Nutrients<br>Carbohydrates<br>Protein<br>Fats<br>Fibre                                                                                                                                                                                                                                                                                                        | Human digestive<br>system<br>Digestion<br>Mouth<br>Tongue – mixes,<br>moistens | Puberty – the<br>vocabulary to<br>describe sexual<br>characteristics<br>Life cycle<br>Gestation | Internal organs<br>Heart<br>Lungs<br>Liver<br>Kidney<br>Brain |



### Vocabulary Progression



|              |                |               |              |               |                   |                 |                |
|--------------|----------------|---------------|--------------|---------------|-------------------|-----------------|----------------|
| Caterpillar  | Dry            | Mammals       | Exercise     | Water         | Saliva            | Growth          | Skeletal       |
| Butterfly    | Frog spawn     | Pets          | Hygiene      | Vitamins      | Oesophagus        | Reproduce       | Muscle         |
| Jungle       | Tadpole        | Senses        | Nutrition    | Minerals      | Transports        | Foetus          | Muscular       |
| Desert       | Froglet        | Tongue –      | Reproduce    | Skeleton      | Stomach           | Fertilisation   | Digest         |
| North Pole   | Frog           | taste         | Chicken      | Bones         | Acid              | Old age         | Digestion      |
| South Pole   | Die            | Nose – smell  | Pupa         | Joints        | Enzymes           | Life expectancy | Digestive      |
| Sea          | Fur            | Eyes – vision | Lamb         | Endoskeleton  | Small intestine – | Adolescence     | Circulatory    |
| Hot          | Environment    | Skin – touch  | Sheep        | Exoskeleton   | absorbs water     | Adulthood       | system         |
| Cold         | Ocean          | Ears –        | Teenager     | Hydrostatic   | Vitamins          | Early adulthood | Blood vessels  |
| Grow         | Camouflage     | hearing       | Heartbeat    | Skeleton      | Nutrients         | Middle          | Blood          |
| Snow         | Big/tall       | Head          | Germes       | Vertebrate    | Rectum            | adulthood       | Impact         |
| Ice          | Small/short    | Leg           | Disease      | Invertebrate  | Anus              | Late adulthood  | Diet           |
| Change       | Bigger/smaller | Neck          | Food types – | Contract      | Large intestine – | Childhood       | Exercise       |
| Polar        | Old            | Knees         | meat, fish,  | Relax         | compacts          |                 | Drugs          |
| regions      | Brother        | Hair          | vegetables,  | Muscles       | Colon             |                 | Lifestyle      |
| Hair         | Sister         | Arms          | rice, pasta  | Ball joint    | Incisors –        |                 | Nutrients      |
| (colours of  | Mother         | Face          |              | Socket joint  | cutting, slicing  |                 | Damage         |
| hair/long,   | Father         | Mouth         |              | Hinge joint   | Canines –         |                 | Alcohol        |
| short,       | Aunt           | Elbows        |              | Gliding joint | ripping, tearing  |                 | Substances     |
| straight,    | Uncle          | Teeth         |              | Support       | Molars –          |                 | Pulse          |
| curly)       | Grandmother    | Omnivores     |              | Protect       | chewing,          |                 | Rate           |
| Eyes         | Grandfather    | Meat          |              | Move          | grinding          |                 | Pumps          |
| (colours of  | Friend         | Plants        |              | Skull         | Floss             |                 | Transported    |
| eyes)        | Family         | Human         |              | Ribs          | Brush             |                 | Oxygen         |
| Skin (black, | Boy            | Names of      |              | Spine         | Food chain        |                 | Carbon dioxide |
| brown,       | Girl           | animals       |              |               | Sun               |                 | Cycle          |
| white)       | Man            | from each     |              |               | Producers         |                 |                |
| Feathers     | Woman          | vertebrate    |              |               | Prey              |                 |                |
| Scales       | Human          | Carnivores    |              |               | Predators         |                 |                |
| Tail         |                |               |              |               | Carnivore         |                 |                |
| Wings        |                |               |              |               | Herbivore         |                 |                |
| Beak         |                |               |              |               | Omnivore          |                 |                |
| Claws        |                |               |              |               |                   |                 |                |



## Vocabulary Progression



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|                                                                                       | Paws<br>Hooves<br>Swim<br>Walk<br>Run<br>Jump<br>Fly<br>Patterns<br>Spots<br>stripes<br>Life cycle<br>Bird<br>Cocoon<br>Chrysalis<br>Baby<br>Toddler<br>Child<br>Adult<br>Smell<br>Taste<br>Touch<br>Feel<br>Hear<br>See |                                                                                  |                                                                                     |                                                                                                     |  |                                                                                         |                                                                                                   |  |
| Materials including Changing Materials (FS1/FS2)<br><br>Everyday Materials (Year 1/2) | Mix<br>Stir<br>Cook<br>Hot<br>Oven<br>Microwave<br>Change<br>Burn<br>Ice                                                                                                                                                 | Hard<br>Runny<br>Set<br>Icicle<br>Smooth<br>Biggest<br>Stiff<br>Smallest<br>Card | Object<br>Material<br>Glass<br>Water<br>Rock<br>Brick<br>Fabrics<br>Elastic<br>Foil | Cardboard<br>Squashing<br>Bending<br>Twisting<br>Stretching<br>Matches<br>Floors<br>Telegraph poles |  | Solid<br>Solidify<br>Iron<br>Ice<br>Liquid<br>Evaporate<br>Condense<br>Gas<br>Container | Properties<br>Hardness<br>Solubility<br>Transparency<br>Electrical conductor<br>Thermal conductor |  |



### Vocabulary Progression



|                           |                                                                                                                                                                                                       |                                                                                          |                                                                                                                                         |                                                                                                                                                                                                                                                                                                 |  |                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                               |  |
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| States of Matter (Year 4) | Water<br>Frozen<br>Melt<br>Freeze<br>Freezer<br>Snow<br>Wet<br>Cold<br>Slippery<br>Cold<br>Hard<br>Soft<br>Bendy<br>Big<br>Bigger<br>Small<br>Smaller<br>Wobbly<br>Wood<br>Plastic<br>Paper<br>Fabric | Metal<br>Strong<br>Weak<br>Waterproof<br>Not waterproof<br>Best<br>Change<br>Change back | Properties<br>Stretchy<br>Shiny<br>Dull<br>Rough<br>Smooth<br>Not bendy<br>Absorbent<br>Not absorbent<br>See-through<br>Not see-through | John Dunlop – scientist<br>Rubber<br>Charles Macintosh – scientist<br>Waterproof fabric<br>John McAdam – scientist<br>Coins<br>Cans<br>Cars<br>Table legs<br>Spoons<br>Opaque<br>Transparent<br>Translucent<br>Reflective<br>Non-reflective<br>Flexible<br>Rigid<br>Shape<br>Pushing<br>Pulling |  | Changing state<br>Heated<br>Heat<br>Cooled<br>Cool<br>Degree Celsius °C<br>Thermometer<br>Water cycle<br>Evaporation<br>Condensation<br>Temperature<br>Melting<br>Warm/cool<br>Water<br>Water vapour<br>Melting point<br>Boiling point<br>Thermal/electrical insulator/conductor<br>Mixture<br>Dissolve<br>Solution<br>Soluble<br>Insoluble<br>Filter<br>Sieve<br>Reversible<br>Irreversible<br>Burning<br>Rusting | Response to magnets<br>Separate<br>Separating<br>Solids<br>Liquids<br>Gases<br>Evaporating<br>Reversible changes<br>Dissolving<br>Mixing<br>Evaporation<br>Filtering<br>Sieving<br>Magnetism<br>Electricity<br>Chemists – Spencer Silver/Ruth Benerito<br>Quantitative Measurements<br>Conductivity<br>Insulation<br>Chemical |  |
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## Vocabulary Progression



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|                                  |                                                                                                                                               |                                                                                                                                         |                                                                                                                             |                                                                                                                     |  | New material                                                                                                                                     |                                                                                                                                                                   |                                                                                                                                                 |
| Seasonal Changes                 | Spring<br>Summer<br>Autumn<br>Winter<br>Sunny<br>Cloudy<br>Hot<br>Cold<br>Raining<br>Snow<br>Puddles<br>Windy<br>Rainbow<br>Plants<br>Flowers | Seasons<br>Warm<br>Shower<br>Storm<br>Thunder<br>Lightning<br>Hail<br>Sleet<br>Icy<br>Frost                                             | Season<br>Day<br>Daytime<br>Weather<br>Wind<br>Rain<br>Fog<br>Sun<br>Hot<br>Warm<br>Cold<br>Day length<br>Sunrise<br>Sunset |                                                                                                                     |  |                                                                                                                                                  |                                                                                                                                                                   |                                                                                                                                                 |
| Living Things and their Habitats | Tree<br>Flower<br>Plant<br>Animal<br>Leaves<br>Seeds<br>Conkers<br>Shells<br>Feathers<br>Same<br>Different<br>Pattern                         | Natural<br>Bush<br>Vegetable<br>Herb<br>Weed<br>Animal<br>Names of plants and animals they see (more of a range)<br>Name of contrasting |                                                                                                                             | Never alive<br>Habitats<br>Micro-habitats<br>Food<br>Food chain<br>Sun<br>Grass<br>Cow<br>Human<br>Alive<br>Healthy |  | Environment<br>Flowering (including grasses)<br>Non-flowering (including mosses and ferns)<br>Plants<br>Animals<br>Vertebrate<br>Dangers<br>Fish | Life cycles<br>Life process of reproduction<br>Vegetable garden<br>Flower border<br>Animal naturalists – David Attenborough<br>Animal behaviourist – Jane Goodall | Classify<br>Compare<br>Linnaean Scientist – Carl Linnaeus<br>Classification<br>Domain<br>Kingdom<br>Phylum<br>Class<br>Order<br>Family<br>Genus |



## Vocabulary Progression



|                                                          |                                      |                                                                                                                                  |  |                                                                                                                                                                     |                                                                                |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                    |                                                                                                                                           |
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|                                                          | Names of plants and animals they see | environment<br>e.g. beach,<br>forest<br>Acorns<br>Twigs<br>Bark<br>Pebbles<br>Stones<br>Living<br>Dead<br>Nocturnal<br>Hibernate |  | Names of local habitats<br>Names of micro-habitats<br>Conditions<br>Hot<br>Warm<br>Cold<br>Dry<br>Damp<br>Wet<br>Bright<br>Shade<br>Dark<br>Shelter<br>Move<br>Feed |                                                                                | Amphibians<br>Reptiles<br>Birds<br>Mammals<br>Invertebrate<br>Snails<br>Slugs<br>Worms<br>Spiders<br>Insects<br>Human impact<br>Positive<br>Nature reserves<br>Ecologically planned parks<br>Garden ponds<br>Negative<br>Population<br>Development<br>Litter<br>Deforestation<br>Classification<br>Classification keys<br>Migrate | Reproduction<br>Sexual<br>Asexual<br>Rainforest<br>Oceans<br>Desert<br>Prehistoric<br>Similarities<br>Differences<br>Sperm<br>Fertilises<br>Egg<br>Live young<br>Metamorphosis<br>Plantlets<br>Runners<br>Cuttings | Species<br>Vertebrates<br>Invertebrates<br>Microorganisms<br>Organism<br>Flowering<br>Non-flowering<br>Fish<br>Spiders<br>Snails<br>Worms |
| Rocks (Year 3)<br><br>Evolution and Inheritance (Year 6) |                                      |                                                                                                                                  |  |                                                                                                                                                                     | Appearance<br>Physical<br>Properties<br>Hard<br>Soft<br>Shiny<br>Dull<br>Rough |                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                    | Evolution<br>Adaption<br>Inherited traits<br>Adaptive traits<br>Natural selection<br>Inheritance                                          |



## Vocabulary Progression



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|       |                                                                 |                                                                                            |  |  | Smooth<br>Absorbent<br>Not absorbent<br>Sedimentary<br>Rock<br>Soils<br>Organic matter<br>Buildings<br>Gravestones<br>Grains<br>Crystals<br>Stones<br>Pebbles<br>Boulder<br>Layers<br>Texture<br>Fossil<br>Marble<br>Chalk<br>Granite<br>Slate<br>Peat<br>Sandy/chalky/clay<br>soil |  |  | Scientist –<br>Charles Darwin,<br>Alfred Wallace<br>DNA<br>Genes<br>Variation<br>Parent<br>Offspring<br>Fossil<br>Environment<br>Fossilisation<br>Plants<br>Animals<br>Living things<br>Offspring<br>Sexual<br>reproduction<br>Vary<br>Characteristics<br>Suited<br>Species |
| Light | Light<br>Torch<br>Brightest<br>Sun<br>Sunny<br>Clouds<br>Mirror | Shiny<br>Bright<br>Brighter<br>Shadow<br>Light source<br>Transparent<br>Not<br>transparent |  |  | See<br>Dark<br>Reflect<br>Surface<br>Natural<br>Star<br>Moon<br>Blocked<br>Solid                                                                                                                                                                                                    |  |  | Travels<br>Straight<br>Reflection<br>Object<br>Shadows<br>Mirrors<br>Periscope<br>Rainbow<br>Filters                                                                                                                                                                        |



## Vocabulary Progression



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|       |                                                                                                                                                   |                                                     |  |  | Artificial<br>Torch<br>Candle<br>Lamp<br>Sunlight<br>Dangerous<br>Protect eyes<br>UV light<br>Visible<br>Invisible<br>Spectrum<br>Absence of light<br>Translucent<br>Opaque<br>Matt<br>Shiny |                                                                                                                                                                                   |  | Light rays |
| Sound | Sound<br>Noise<br>Loud<br>Quiet<br>High<br>Low<br>Music<br>Bang<br>Blow<br>Soft<br>Hard<br>Fast<br>Slow<br>Instrument<br>Listen<br>Hear<br>Voices | Volume<br>Crackle<br>Thunder<br>Hum<br>Buzz<br>Roar |  |  |                                                                                                                                                                                              | Vibrate<br>Vibration<br>Vibrating<br>Air<br>Medium<br>Ear<br>Pitch<br>Faint<br>Fainter<br>Louder<br>String<br>Percussion<br>Woodwind<br>Brass<br>Insulate<br>Source<br>Insulation |  |            |





## Vocabulary Progression



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|--------------------|------------------------------------------------------|----------------|--|--|--|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
|                    | Bird song<br>Traffic<br>Sirens                       |                |  |  |  |  |                                                                                                                                                                                                                                                                                                                       |  |
| Earth and<br>Space | Sun<br>Moon<br>Star<br>Planet<br>Sky<br>Day<br>Night | Earth<br>Space |  |  |  |  | Moons<br>Planets<br>Stars<br>Solar system<br>Mercury<br>Venus<br>Mars<br>Jupiter<br>Saturn<br>Uranus<br>Neptune<br>Pluto<br>Rotate<br>Scientists –<br>Aristotle,<br>Ptolemy,<br>Galileo,<br>Copernicus,<br>Brahe, Alhazen<br>Orbit<br>Axis<br>Spherical<br>Heliocentric<br>Geocentric<br>Hemisphere<br>Season<br>Tilt |  |



## Vocabulary Progression



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| Forces and Magnets | Roll<br>Drop<br>Float<br>Sink<br>Water<br>Up<br>Down<br>Top<br>Bottom<br>Push<br>Pull<br>Magnet<br>Spring<br>Squash<br>Bend<br>Twist<br>Stretch<br>Fast<br>Slow | Object<br>Surface<br>Move<br>Fly<br>Fall<br>Faster<br>Fastest<br>Slowest<br>Further<br>Furthest<br>Wind<br>Air<br>Water<br>Blow<br>Turn<br>Spin<br>Smooth<br>Rough |  |  | Force<br>Open<br>Magnetic force<br>Attract<br>Repel<br>Magnetic poles<br>North<br>South<br>Non-contact force<br>Contact force<br>Strength<br>Bar magnet<br>Ring magnet<br>Button magnet<br>Horseshoe magnet<br>Magnetic material<br>Metal<br>Iron<br>Steel |                                                                                        | Gravity<br>Air resistance<br>Water resistance<br>Friction<br>Effect<br>Accelerate<br>Decelerate<br>Stop<br>Change direction<br>Brake<br>Mechanism<br>Pulley<br>Gear<br>Spring<br>Theory of gravitation<br>Scientist – Galileo Galilei, Isaac Newton<br>Simple machines<br>Levers<br>Earth |                                                                                                    |
| Electricity        | Plug                                                                                                                                                            | Battery<br>Electricity<br>Wire<br>Light<br>Bulb                                                                                                                    |  |  |                                                                                                                                                                                                                                                            | Appliances<br>Socket<br>Electrical circuit<br>Cell<br>Wire<br>Bulb<br>Buzzer<br>Danger |                                                                                                                                                                                                                                                                                           | Voltage<br>Brightness<br>Volume<br>Switches<br>Danger<br>Series circuit<br>Sign<br>Circuit diagram |



## Vocabulary Progression



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|  |  |  |  |  |  | Electrical safety<br>Sign<br>Insulators<br>Wood<br>Rubber<br>Plastic<br>Glass<br>Conductors<br>Metal<br>Non-metal<br>Water<br>Switch<br>Open<br>Closed<br>Electrical<br>appliance/device<br>Mains<br>Complete circuit<br>Component<br>Positive<br>Negative<br>Connect/<br>connections<br>Loose<br>connection<br>Short circuit<br>Crocodile clip<br>Symbol |  | Motor<br>Recognised<br>symbols<br>Circuit |
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|  | EYFS | KS1 | LKS2 | UKS2 |
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### Vocabulary Progression



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| Working Scientifically | Test<br>Similar<br>Different<br>Senses<br>Tools<br>Question<br>Draw<br>Write<br>Observe<br>Sort | Question<br>Answer<br>Observing<br>Equipment<br>Identify<br>Classify<br>Group<br><b>Record</b> – diagram, chart, map<br>Data<br>Compare<br>Contrast<br>Describe<br>Biology<br>Chemistry<br>Physics | <b>Research</b> – relevant questions<br>Scientific enquiry<br>Comparative and fair testing<br>Observation<br>Measurement<br>Equipment<br><b>Data</b> – gather, record, classify, present<br><b>Record</b> – drawings, labelled diagrams, keys, bar charts, tables<br>Explain<br>Conclusion<br>Prediction<br>Differences<br>Similarities<br>Changes<br>Evidence<br>Key<br>Interpret | Plan<br>Variables<br>Measurements<br>Accuracy<br>Precision<br>Repeat readings<br><b>Report data</b> – scientific diagrams, labels, classification keys, tables, scatter graphs, bar graph and line graphs<br>Predictions<br>Comparative and fair test<br><b>Report and present</b> – conclusions, causal relationship, explanations, degree of trust, oral and written display and presentation<br><b>Evidence</b> – support, refute ideas or arguments<br>Identify, classify and describe<br>Patterns<br>Systematic<br>Quantitative measurements |
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