Progression in Scientific Vocabulary

Starting point for Key Scientific Vocab: list which each key stage should know can be added to!

Phase	Biology	Chemistry	Physics	Environmental Science	Working Scientifically
EYFS	Tree Flowers Fruit	Sun Day Night Water Wood Glass			Similar Different
KS1	Deciduous, Evergreen, Tree, Leaves, Flowers (blossom), Petals, Fruit, Roots, Bulb, Seed, Trunk, Branches, Stem, Oak, Holly, Willow, Birch, Chestnut, Conker, Daisy, Buttercup, Rose, Daffodil, fruit ish, Reptiles, Mammals, Birds, Amphibians (+ examples of each) Herbivore, Omnivore, Carnivore, Leg, Arm, Elbow, Head, Ear, Nose, Back, Wings, Beak Seeds, Bulbs, Water, Light, Suitable temperature, Grow, Healthy, Germinate, Decompose survival, Water, Air, Food, Adult, Baby, Offspring, Kitten,	Everyday Materials Wood, Plastic, Glass, Paper, Water, Metal, Rock, Hard, Soft, Bendy, Rough, Smooth summer, Spring, Autumn, Winter, Sun, Day, Moon, Night, Light, Dark Materials Hard, Soft, Stretchy, Stiff, Shiny, Dull, Rough, Smooth, Bendy, Waterproof, Absorbent, Opaque, Transparent Brick, Paper, Fabrics, Foil	Of Materials Squashing, Bending, Twisting, Stretching Elastic, Light Opaque, Transparent		What…? How ….? Why …? similar different best and worst change plan look biggest and smallest compare sort and group observe change slowly quickly describe name identify label record measure bigger and smaller pattern notice cycle predict

	Calf, Puppy, Exercise, Hygiene Living, Dead, Habitat, Energy, Food chain, Predator, Prey, Woodland, Pond, Desert				
Lower KS2 Year ¾	Air, Light, Water, Nutrients, Soil, Reproduction, Transportation, Dispersal, Pollination, Flower, Movement, Muscles, Bones, Skull, Nutrition, Skeletons Mouth, Tongue, Teeth, Oesophagus, Stomach, Small Intestine, Large Intestine, Herbivore, Carnivore, Canine, Incisor, Molar Vertebrates, Fish, Amphibians, Reptiles, Birds, Mammals, Invertebrates, Snails, Slugs, Worms, Spiders, Insects, Environment, Habitats	Fossils, Soils, Sandstone, Granite, Marble, Pumice, Crystals, sedimentary, metamorphic, igneous, absorbent/porous, durable, permeable, impermeable States of Mater Solid, Liquid, Gas, Evaporation, Condensation, Particles, Temperature, Freezing, Heating, Precipitation	Volume, Vibration, Wave, Pitch, Tone, Speaker Cells, Wires, Bulbs, Switches, Buzzers, Battery, Circuit, Series, Conductors, Insulators, brightness Magnetic, Force, Contact, Attract, Repel, Friction, Poles, Push, Pull Light, Shadows, Mirror, Reflective, Dark, Reflection, light source, cast		gradually identify observe recognise investigate record units table fair evidence research length observations prediction similarities differences research and source scientists discovery process cycle measurements conclude evaluate rank plan vary keep the same/constant bar graph table tally
Upper KS2 Y5/6	Fossils, Adaptation, Evolution, Characteristics, Reproduction, Genetics Mammal, Reproduction,	Properties, including changes of, materials Hardness, Solubility, Transparent, Opaque, Translucent,	Forces Air resistance, Water resistance, Friction, Gravity, Newton, Gears, Pulleys, lever,	greenhouse effect emissions climate change sustainable solar power wind power hydro power fossil fuels	classify interpret pattern relationship prediction analyse interpret conclude

	Insect, Amphibian, Bird, Offspring; Classification, Vertebrates, Invertebrates, Microorganisms, Amphibians, Reptiles, Mammals, Insects Foetus, Embryo, Womb, Gestation, Baby, Toddler, Teenager, Elderly, Growth, Development, Puberty; Circulatory, Heart, Blood Vessels, Veins, Arteries, Oxygenated, Deoxygenated, Valve, Exercise, Respiration	Magnetic, Filter, Evaporation, Dissolving, Mixing, Thermal conductor, thermal insulator, electrical conductor, electrical insulator	force, pivot (fulcrum) Earth, Sun, Moon, Axis, Rotation, Day, Night, Phases of the Moon, star, constellation, waxing, waning, full, new, year, month,	carbon dioxide	evaluate rank variable constants control repeat key relationship line graph hypothesis variable constants evaluate plan conclude interpret classify categorise database enquiry control repeat support refute degree of trust scatter graph