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| **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 |
| BackboneEnvironmentTemperatureWildBalance/dSensesBalancedDietBar chartBonesDiseaseLife-cycle | Healthy HygieneMedicineMusclesPictogramSurviveTreatment FeaturesUniqueFishBird | CarnivoresGills Cold-bloodedHerbivoreInvertebrateOmnivoreVertebrateWarm-bloodedOff-spring MammalsAmphibianReptileSkeleton SkullBrain | BackboneHumanSurviveHealthyOrganJointsMusclesContractUnhealthy EnergyFatsWater DiseaseProcess Environment Nutrients | RelaxProtectBonesConnectedKneeRibsElbowAnkleHip Diet Balanced Hygiene Absorb Stomach Nutrition | Vertebrate/sMammalsAmphibianReptileEndoskeletonFemurExoskeletonInvertebratesStarchy SkeletonDigestive Digested CanineIncisorPremolarMolarSaliva Faeces Ingested Classify Food chain/web ProducerPrimary consumerSecondary consumer | TendonsCraniumPelvisTricepsBicepsSpine ProteinCarbohydratesVitaminsMineralsFibreOmnivoreCarnivoreHerbivore ExcretionPlaque Enamel Tooth decay IntestineOesophagusClassificationHabitat Microhabitat Organism Predator Prey Tertiary consumer  | Adulthood Development Growth IndependentToddler Elderly AdultTeenager VeinsPulse OrganVia | Life-cycleProcessMature OrganRapid Chemical Survival HeartLungsExercise Function Ventilation  | Adolescence Foetus GenitalsGestationPuberty ReproductionVertebrate Blood vesselsArteries OxygenatedAtriumVentricleVena cavaAorta  | Hormone/alInfancyMenopauseMenstruation Offspring RespirationDigestive systemCirculatory system Deoxygenated NutrientsOxygenCarbon dioxide Capillaries |
| **National Curriculum Unit****Plants (Biology) – Years 1, 2 and 3** |
| **KS1** | **LKS2** | **UKS2** |
| Tier 2 | Tier 3 | Tier 2 | Tier 3 |  |
| BranchesBulbCommonHerbPetalRoots | StemSeedTrunk WildWeedBlossom  | DeciduousEvergreen Vegetation Veins (leaves)Crown (tree)Crop NutrientsReproduce Substances | CommonWild FunctionLife cycle MatureRootsBulbSeedStemTrunkBranchHealthy | FloweringStructureTemperaturePetalsPollenAbsorb TransportedFruit  | DeciduousEvergreenClimate zoneVegetationGermination Carbon dioxide NutrientsPollination | StigmaDispersed FertilisationOvule AntherDissectFertiliser  |
| **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 |
| CommonSurviveDependWoodlandsCoast/Ocean/River/PondDesertSource | Mini-beastEvidence Exist Healthy Shelter  | HabitatBiomes VegetationCarnivoreOmnivoreHerbivoreFood chainMicrohabitat Off-spring VertebrateInvertebrateTundra | Criteria Mini-beast NutritionSensitivity Urban  | VertebrateInvertebrateCarnivoreOmnivoreDeciduousEvergreenExcretion Food chainHabitatLife processesMicrohabitat  | HerbivoreBiomesClassification keyOrganism Reproduction RespirationVegetation  | Bulb FunctionFlowering Life cycle Mature Pollen Petal Seed Mini-beast Evolve | Structure Transferred Identical Environment CharacteristicsCriteriaEnergyAdapt  | AntherDispersed DissectEmbryoFertilisation Pollination Reproduction Reproduce InvertebrateVertebrate Adaptation CarnivoreEvolution Habitat Food chainOmnivoreOrganism Predator Prey | Cell Gamete GerminationMetamorphosisOvaryOvuleStigma Sexual/asexual Classification keyHerbivoreInvertebrateMicrohabitat MicroorganismSpecies 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 |
| MaterialObjectTextureAppearanceGlassMetalPlasticRockElasticPaperWoodWaterNaturalNature Man-madeProduced CoalConcreteRubberSteelPlastic Polyester Weaving SoaksCurvedSubstancePurpose ProcessSquashingBending Twisting | FabricFeltWaterproofStiffFlexible SoftShinyRoughBrightBendyStretchy/ingHardSmoothBumpyDullChalkSandOilCottonLeatherIronGoldBrick Created Original FoilSuitableSuitability  | TransparentOpaqueAbsorbentTranslucent Properties Recyclable  | Cooling Freezing/freezing point FrozenGas HeatingLiquidMelting/melting point Process Solid PropertiesTemperature  | CondensationEvaporation ParticlesPrecipitationVibrations Water cycleWater vapour Condenses  | Electricity FlexibleGas LiquidMelting  | Process Rate Solid Solution State Temperature  | CircuitCondensation ConductorFiltering Insoluble Insulator IrreversibleSoluble Thermal  | DissolvesEvaporationMagneticParticlesPermeable Properties Resistance ReversibleTransparent 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 BrightDarkDim ElectricityReflectsShadowEnergy  | SourceProductMedium Power Transmit Volume  | Chemical reactionEmitsOpaqueTranslucentTransparent Vibrations  | AmplitudeDecibelFrequencyPitchSound waves | ReflectionSourceDarkShadow Rays TravelVisibleVolume | Electricity Angle DimSurfaceMeasureDistance Invisible  | Opaque EmitsTranslucentTransparent SpectrumInfrared UltravioletCochleaAuditory nerve | Periscope CorneaIrisOptic nervePitchAmplify Ear canalOssicles AnvilHammerStirrup |
| **National Curriculum Unit****Electricity (Physics) – Years 4 and 6** |
| **KS1** | **LKS2** | **UKS2** |
|  | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| Appliance/sBatteryBulbEnergy FuelGenerate Switch Wires  | BuzzerDeviceElectricityMotorPowerSource  | CellCircuitComponentConductor | CurrentInsulator Mains RenewableFossil fuels | Electricity EnergyDevicesForce BulbBuzzerPower Wires  | SourceAppliance/sSwitch Battery Motor FuelGenerate Socket | ComponentConductorInsulatorCellResistor MainsBreak | Circuit Series circuitResistanceAmmeter Voltage Current  |
| **National Curriculum Unit****Forces (Physics) – Years 3 and 5** |
| **KS1** | **LKS2** | **UKS2** |
|  | Tier 2 | Tier 3 | Tier 2 | Tier 3 |
| BendyStretchy TwistSurface ForceOpposite PositionPush | Magnet MotionPull | Friction Gravity Magnetic/non-magnetic Magnetic field AttractRepelResistancePolesMetallic | AttractForceGearMotionOpposite | Pulley Spring Streamlined Surface Mass | FrictionGravityRepelResistanceLeverPolesMechanisms Rotary/Linea | ThrustNewton meterFulcrum forcePivotTorqueAxis  |
| **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 |
| MonthsYearLengthWeatherSeasonsSpringTemperature | SummerAutumnWinterDaylightNatureConkers | Deciduous EvergreenHibernateMigrateClimateBlossom | AbsorbGrain Imprint NaturalMan-madeSurrounding Volcano Weathered  | Preserve PressureProperties Rock SoilSurface  | BedrockDecayingIgneous Leaf litterPalaeontologyPermeablePorous/non-porous Prehistoric  | MagmaMetamorphic MineralMoltenNutrientsSediment  | PlanetShadowSphere/spherical SpinRotationRotateSeasons OrientationEvolve Theory PhasesQuarterAtmosphere  | StarTime zonesUniverse Solar system Survival Environment/alSurviveGenerations Characteristics EarthSatellite Collision Exploration | AsteroidAxis CometSolar eclipse OffspringBreed/ingReproduction EvolutionNatural selectionInheritedAdaptationAncestorExtinctMilky wayMercuryVenusMarsJupiter Saturn Neptune UranusPluto RoverProbeAstronaut GeocentricHeliocentric Orrery | GalaxyGravityLeap yearMeteorite Orbit Biodiversity BiomesPalaeontologyFossilsSpecies InheritanceMutationMaladaptation VariationDwarf planetTerrestrialNorthern LightsAuroraCraterHemisphere Lunar cycle WaxingWaningCrescentGibbous Shooting star |