

Science – Key Vocabulary

EYFS	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Understanding the World: The Natural World	Animals Including Humans					
butterfly tadpole lamb chick ocean beach habitat fins tentacles sea land diet plastic pollution	head neck arms elbows legs knees face ears eyes hair mouth teeth tongue feet hands torso skin senses ears/hearing hands/touch nose/smell eyes/sight tongue/taste birds fish feathers scales breathe lay young diet characteristic cold-/ warm-blooded mammal reptile amphibian carnivore omnivore herbivore	growth human child toddler teenager adult survive shelter exercise muscles heart lungs brain meat fruit vegetables dairy fat sugar healthy portion offspring life cycle limbs reproduce energy air (oxygen) temperature hygiene mental health	growth carbohydrate fat protein dairy domestic pet environment diet behaviour company health and welfare skeleton skull ribcage spine muscle relax contract nutrition energy calcium joints organs triceps bicep	teeth digestive system mouth tongue stomach adaptation energy prey predator incisor canine molar premolar carnivore omnivore herbivore oesophagus small and large intestine food chain producer primary secondary tertiary consumer	toddler stages lifecycle puberty pubic hair breasts periods womb chemical mass embryo foetus adolescent hormones DNA genes oestrogen testosterone pituitary gland reproduction menstruation gestation period viviparous zygote	pump heart lifestyle drugs medicine illegal vitamins circulatory system organ blood vessels arteries veins capillaries living cells oxygen carbon dioxide deoxygenated oxygenated platelets plasma red/white blood cells antibodies single/double circulatory system nicotine caffeine proteins stimulant hallucinogen depressant, nicotine ethanol

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Understanding the World: The Natural World	Living Things & Their Habitats					
animals local nocturnal owls bats badgers hibernate protect habitats hedgehogs dormouse squirrels polar litter		living features move feed grow senses shelter depend / survive suitability transfer environment reproduce habitat microhabitat source nutrients energy food chain producer prey predator		group category key flowering non-flowering environment surroundings conditions natural human-made endangered extinct positive negative indifferent protect manage impact classification vertebrate invertebrate spores dichotomous key urbanisation deforestation pollution climate change population fossil fuels natural disaster human impact Venn diagram conservation	lifecycle natural world expertise observe document study stages of development sexual asexual reproduction larvae embryo metamorphosis naturalist pistal / carpel stigma style ovary stamen anther nectar pollen pollination fertilisation dispersal tuber bulb runner clone vegetative propagation sperm egg external / internal fertilization	insects algae moss fern conifer bacteria vertebrate/non-vertebrate taxonomy arachnids crustaceans millipedes annelids echinoderms molluscs coelenterates dichotomous key ginkgoes angiosperms microorganism microbes fungi protists

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Understanding the World: The Natural World	Everyday Materials	Uses of Everyday Materials	Rocks	States of Matter	Properties and Changes of Materials During Years	
object wood plastic metal rock water sand pebbles rock pools cliffs frozen melt	object wood plastic metal rock water hard/soft stretchy/stiff shiny/dull rough/smooth bendy/not bendy waterproof/not waterproof properties material opaque / transparent absorbent / not absorbent	wood metal plastic glass brick rock paper cardboard strong waterproof bounce grip (sole) squash bend twist stretch, stretchy/not stretchy fabric property material object suitability purpose solid fair test	rock material Earth remains heat pressure durable preserve decay earthworm leaves soil mineral crust formation physical properties metamorphic sedimentary igneous grains molten magma lava crystals permeable impermeable sediment fossil palaeontologist fossilisation organic matter erode	melt temperature freeze states of matter solid liquid gas matter mass volume particles properties water vapour melting point freezing point condensation evaporation water cycle precipitation water vapour	material mixture burning rust thermal conductor insulator transference independent / dependent controlled variable dissolve solid liquid gas states of matter solution filtration sieving evaporation permeable vapour particles irreversible chemical changes acid	

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Understanding the World: The Natural World	Sound					
sound ear hear / hearing volume loud / louder / loudest quiet / quieter / quietest				sound vibrate / vibrations medium volume distance decrease insulation energy sound wave sound source insulator pitch		
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Understanding the World: The Natural World			Forces and Magnets		Forces	
push pull magnet attract repel			push pull surface movement magnet attract repel north/south pole metal iron steel nickel contact/non-contact force friction resistance gravity magnetic field magnetism horseshoe/bar/ring		simple machine effort load float silk streamlined friction resistance forcemeter contact force gravity gravitational pull mass matter air resistance water resistance drag up-thrust displace lever pulley gear transmission mesh axle fulcrum pivot mechanisms redirecting force	

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Understanding the World: The Natural World Seasons	Seasonal Changes					
season changes autumn winter spring summer weather	season changes autumn winter spring summer weather sunrise sunset temperature					
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Understanding the World: The Natural World	Plants					
flower tree plant bulb daffodil tulip conker sycamore acorn grass fruit vegetable seed	plants wild plants garden plants weeds trees seeds root, shoot soil magnifying glass flower petal stem leaf/leaves tree trunk, bark branch blossom acorn, local plant names hand lens common tree names deciduous evergreen	seed bulb plant, protect mature roots shoot food supply temperature seed coat food store seed leaves germination nutrients absorb energy lifecycle reproduce	seed parent plant roots stem leaves trunk/branches flowers transport absorb tubes flower pollen nectar attract dispersal germination root hair function nutrients carbon dioxide growth rate nutrient, drought climate pollination reproduce			

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Understanding the World: The Natural World	Light					
light dark shiny bright dull matt shadows position direction			light reflect visible / visibility dark shiny bright dull matt mirror angle shadows position direction damage protection sunrise sunset rotation compass direction light source opaque, translucent transparent filters UV rays retina pupil			beam ray shadow cast, object reflect light source energy distortion factor incident ray reflected ray angle of incidence angle of reflection normal line phenomenon refraction spectrum prism
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Earth & Space						
					sun light source energy Earth North Pole South Pole (children likely to have some understanding of planets, universe, space etc.)	

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Evolution & Inheritance						
						diversity siblings characteristics traits habitats climate extinction crossbreed evolution mould / body / trace / cast fossil fossil record species variation inheritance inherited / environmental variation selective-breeding natural selection adaptation organism pollinators
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Electricity						
				appliance mains electricity battery generated power station electrical energy pylon plug socket convert series circuit component bulb (lamp) lamp holder buzzer cell battery wire crocodile clip electrical conductor electrical insulator		symbol device series circuit cell battery component voltage