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| **FOODS & DIGESTION** | **ANIMALS****EVOLUTION INHERITANCE****CLASSIFICATION** | **HUMAN BODY** |
| nutrients starches protein balanced diet carbohydrates fibre digestive system antioxidants minerals diet energy healthy  | omnivore carnivore herbivore mammal reptilearachnidcrustaceanannelidinsectamphibianmolluscpredatorprey food chain organism generation reproduce survival descended classifying natural selection species primates prehensile Charles Darwin mutationevolution inheritance inherited offspring characteristics traits distinctive variation resistance disease pigment crossbreed adapted vertebrate invertebrate environment fossils palaeontologist extinct  | deforestation cross pollination selective breeding offspring cold blooded unsegmented segmented echinoderm annelid myriapod Carl Linnaeus classification aquatic botanist nutrients roots stem rhizoids spores non flowering flowering system taxonomy kingdom order genesis species phylum class microbes bacteria fungi viruses oxygen diseases  | organs collar bone ribs femur fibula tibia pelvis vertebrae shoulder blade skull vertebrates invertebrates muscle contract teeth incisors canines molars premolars milk teeth tongue liver large intestine small intestine oesophagus stomach pancreas digestion digestive system saliva enzymes bloodstream hydrates absorbs toxins bacteria yeast faeces balanced diet energy muscle exercise heart rate vitamins minerals protein heart lungs oxygen (o2) pulmonary veins right atrium pulmonary veins  | carbohydrate minerals fibre fat sugars starches organs immune system digestive system source of energyinsulation nerve fibres iron calcium magnesium zinc potassium circulatory system absorbs blood stream carbon dioxide (co2) arteries vitamin c deficiencies blood vessels veins pulse rate smooth muscles cardiac muscles skeletal muscles contract relax beneficial harmful medicines prescription tobacco cigarettes nicotine addictive drugs cardiovascular disease blood pressure asthma alcohol liver right ventricle aorta left ventricle left atrium  |

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| **ROCKS** | **MAGNETS** | **LIGHT** | **STATES OF MATTER** | **FORCES** |
| rock fossil soil mineral crystal marble hard-wearing slate chalk limestone natural man-made criterion characteristics venn diagram carroll diagram erosion permeable microorganisms fragment contract weathering decaying organic layer topsoil subsoil bedrock sand silt compressed inner core outer core crust mantle iron igneous rock sedimentary rock metamorphic rock petrified dissolves palaeontologist organisms prehistoric erosion ammonite trilobite belemnitecoprolite | force magnet push pull forcemeter spring stretch newton meters gravity weightless magnetism magnetic field iron filings magnetic poles compass attract repel magnetic non-magnetic predict iron steel copper brass aluminiumalloys nickel cobalt  | light shadow dark emit light sources reflection day night axis dawn dusk artificial light uv opaque transparent translucent light shadows source reflects cornea lens optic nerves retina pupil iris   | solid liquid gas evaporate freeze compare group similarities differences particles properties air resistance compress changing state solidify temperature thermometer mercury molten rock lava degrees celsius fahrenheit condensation water cycle water vapour condensation  | force gravity earth weight gravitational force centre of the earth meteorite crater diameter atmosphere eroded friction resistance forcemeter newtons grams Isaac Newton water resistance streamlined levers pulleys hinge fulcrum air resistance gears cog wheels transmission axle driver gear anticlockwise clockwise |

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| **SOUND** | **ELECTRICITY** | **LIFE CYCLES** | **EARTH AND SPACE** |
| sound vibrations sound waves air particles materials soundproofing orchestra pitch volume length tightness thickness  | electricity circuits conductors components static current atoms protons electrons power source battery/cell wire bulb complete circuit mains appliances plug socket pylon power station caution portable replaced recharged conductor insulator voltage volt current conductor motor insulator amperes buzzer switch open switch closed switchseries circuit parallel circuit dimmer conventional symbols  | life cycles flower petal filament anther stigma style ovary carpel stamen sepals egg cells pollen nectar fertilised reproduce reproductionpollination genetic information pollen tubes sexual reproduction bulb tubers runner plantlets clone genetically identical cuttings parent plant organism internal fertilisation external fertilisation mating womb nutrients offspring sperm embryo  | pregnant colonies environment gestation periods mammal life expectancy reptile incubate metamorphosis pupa breeding naturalists oceanographer laboratories pollution conservation pesticides | sun earth moon spherical space sphere astronauts horizon diameter rotation shadow axis rotate time zones sunrise sunset orbits satellite craters meteors emits reflects waning crescent waning gibbous waxing crescent waxing gibbous half moon new moon full moon calendar lunar cycle solar system leap year planets asteroid belt Mercury EarthVenus Mars Jupiter Saturn Uranus Neptune  |

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| **GROWTH AND REPRODUCTION** | **PLANTS** | **PROPERTIES OF MATERIALS** |
| factors life cycle gestation infancy childhood adolescence adulthood old age fertilised female egg cell womb microscopic embryo foetus ultrasound scan babies infant puberty sperm cell reproduce nutrients twins sexual intercourse bladder penis testes reproductive organs urine uterus ovary/ies bladder vagina embryo breastfeed breasts hormones glands pituitary gland sex hormones  | pubic hair armpit ejaculate periods hips menstruation sanitary pads tampons wet dream sweat deodorant antiperspirant genitals balanced diet hygiene adolescence mature elasticity smoking alcohol growth development exercise  | producers consumer photosynthesis organism ecosystem roots stem flower leaf flowering plants seed moisture absorb minerals soil photosynthesis chlorophyll evaporates pollen reproduction egg cell pollination sepal petal stamen carpel anther filament aquatic plants nectar style stigma ovary  | dissolve solid liquid gas solution particles transparent react float sink soluble evaporation reversible filtering filtration sieving insoluble water cycle effervescent substance heating cooling temperaturethermometercondensation freezing melting ignite flammable malleable brittle comparative soluble conductive flexible compressed waterproof  |