

Science Curriculum

Year 6

Famous Scientists: & their discoveries: Tim Berners-Lee; Humphry Davy

The Human Body: Growth stages; adolescence & puberty; hormones; reproduction; endocrine system & glands

Reproduction: asexual/sexual reproduction; pollination; fertilisation; reproduction in animals

Plants: photosynthesis; vascular/non vascular plants

Classification of living things: classifying organisms; plant & animal cells; fungi; protists; monera; taxonomy

Chemistry: atoms; periodic table; molecules, compounds, physical & chemical changes

Year 5

Geology & Meteorology: the Earth's layers; earthquakes, volcanoes; mountains & rocks; weather & climate

Forces: gravity; friction; air/water resistance; pulleys, gears & levers

Evolution: fossils, adaptations, inherited characteristics

Chemistry: basic terms & concepts: atoms, matter, elements; solubility, conductivity, flexibility etc; change of state

Electricity: series & parallel circuits; current; conductors & insulators

The Human Body: circulatory & respiratory systems; blood; heart rate

Sound: how sound is created/travels; sound waves; speed of sound; hearing

Ecology: habitats; interdependence with environment; food webs; fossils

Year 4

Light: speed of light; shadows; transparent/opaque; reflection; human eye

The Human Body: skeletal & muscular system; nervous system; human eye (light); human voice & ear (sound)

Astronomy: Big Bang Theory; gravity; the universe; our solar system; our galaxy

Classification of plants & animals: cold/warm blooded; vertebrates/invertebrates; characteristics of animal classes; plant classification

Year 3

Rocks: sorting rocks, how rocks formed; fossils; soil

The Human Body: cells, organ systems; digestive system; teeth & senses; healthy diet; vitamins & minerals

Simple Machines: how they make work easier; familiar tools

Cycles In Nature; insects: seasonal cycles & plants; migration; life cycles; characteristics of insects; classifying insects; helpful or harmful?

Matter: atoms; matter; solids, liquids, gases.

Water Cycle: evaporation, condensation, pre-

Forces & Magnets: forces; friction; magnets; magnetic poles; magnetic fields; law of attraction; compasses

The Human Body: skeletal & muscular systems; digestive system & healthy eating; circulatory & nervous system; germs & disease

Year 2

Earth & Space: geographical features of Earth; what's inside Earth; solar system

Living things in their environments— animals: food chains; ocean habitats; habitat destruction & damage; classifying animals

Electricity: circuits; conductive & non-conductive materials; safety

Living things in their environments— plants: Habitats (rainforest, desert, meadow & underground); plants; environmental change

Use of Everyday Materials: suitability of materials for particular uses; how shapes of solid objects can be changed

Year 1

Taking Care of the Earth: conservation of natural resources; logging; recycling; pollution

Plants: What plants need to grow; parts & functions of plants; food production; flowers

Animals & their needs: living things; grouping & describing animals; how plants & animals obtain food; offspring;; caring for pets

Materials & Magnets: classifying materials; magnetic attraction

Seasons & Weather; 4 seasons; tools to record weather; forecasts; symbols; weather around the world

The Human Body: naming parts of the body; the 5 senses

CHEMISTRY