ALDER COPPICE PRIMARY SCHOOL

Science

YEAR 6

BIOLOGY

Human circulatory system
Impact of exercise
Impact of drugs
Classification
5 Kingdoms
Sort plants and micro-organisms
How living things have changes over time
Features of offspring
Adaptation and evolution

CHEMISTRY

Describe materials with more complex vocabulary

PHYSICS

How light travels and reflects
The human eye
Changing shadows – object and light source
Changing the cells in a series circuit
Changing wire lengths or components
Recognise and use circuit symbols

WORKING SCIENTIFICALLY

Plan different kinds of investigations
Control variables
Choose appropriate equipment
Decide on measurements to take
Decide what to observe, when and how long for
Decide whether to repeat a test
Use secondary sources to separate fact and opinion
Use scientific language to communicate, discuss and justify

YEAR 5

BIOLOGY

Growth and development in humans
Changes during puberty
Differences in life cycles
Different reproduction in plants
Human reproduction

CHEMISTRY

Dissolving – soluble/insoluble
Sieving, filtering and evaporation to recover materials
Reversible and irreversible changes

PHYSICS

Solar system
Day and night
Years and seasons
Phases of the moon
Gravity and air resistance
Water resistance
Levers, pulleys and springs

WORKING SCIENTIFICALLY

Take part in different enquiries
Design own enquiries
Fair testing
Decide about what to collect
Use more complex equipment
Collect, record data
Analyse and predict
Use secondary sources
Communicate in various ways
Use scientific language

YEAR 4

BIOLOGY

Group living things
Classification keys
Environmental change
Functions of the digestive system
Teeth in humans
Construct and interpret complex food chains

CHEMISTRY

Solids, liquids and gases
Grouping materials
Changing state by heating or cooling
Evaporation and condensation

PHYSICS

Sound and how it is made
The human ear
Patterns with volume and pitch
What is electricity
Electrical appliances
Series circuits
Switches
Electrical conductors and insulators

WORKING SCIENTIFICALLY

Ask and answer simple questions
Use secondary sources
Perform simple tests
Make careful observations
Compare and group
Notice patterns
Make simple records
Use simple scientific language

YEAR 3

BIOLOGY

Healthy and balanced diet
The human skeleton
How muscles work
Functions of different parts of flowering plants
Explore requirements for plant growth
Transportation of water in plants
Flowers and the life cycle of flowering plants

CHEMISTRY

Three types of rock and properties
Fossils and their formation
Soil
Work of Mary Anning

PHYSICS

Light sources and why we need them
How light travels
Formation of shadows
Forces – pushes and pulls
Different surfaces-frictions and gravity
Magnets and magnetic poles
Magnetic and non-magnetic materials

WORKING SCIENTIFICALLY

Ask and answer simple questions
Use secondary sources
Perform simple tests
Make careful observations
Compare and group
Notice patterns
Make simple records
Use simple scientific language

YEAR 2

BIOLOGY

Stages of plant growth
Know what plants need to grow
Habitats
Plants and animals in habitats
Suitability to habitats
Simple food chains
Animals and offspring
Simple life-cycles
Good diet and hygiene
Identify different kinds of animals and carnivores, herbivores and omnivores
Use animal features
Name body parts and the five senses
Identify plants and deciduous and evergreen trees
Name parts of flowering plants

CHEMISTRY

Uses of materials
Properties and suitability of materials
Changing solid materials
Objects and materials
Name a variety of materials
Properties of materials
Man-made or natural
Group materials

PHYSICS

Observe and describe changes over the four seasons
Observe and describe weather over the seasons
Describe how the lengths of days change

Primary