



Continue your lifelong love of learning and personal development

Move onto college. Continue to grade 4 outcome

Some pupils go on to study science and engineering based courses.

**KS5**

Sit GCSE Chemistry

Human Impact Earth

**YEAR 11**

SIT GCSE Biology

Global Challenges  
Genes and Inheritance

Particles

Element and Compounds

Chemical Reactions

Predicting and Identifying Reactions.

Reaction Rates  
Collision Theory  
Catalysts.

Controlling Chemical Reaction

**YEAR 10**

Carbon and Nitrogen Cycle

Human Body Systems

Diffusion and Osmosis.

Cell and Photosynthesis

**YEAR 10**

Waves and electromagnetic spectrum

Energy

Chemical reactions

Atom and periodic table

Particle model

**YEAR 9**

Competition and adaptation, types of variation,

Periodic Table

Separation Techniques

Metals and Acids

Electricity and Magnetism

Energy

Cells

Variation and Natural Selection

Adaptation and Inheritance  
Health and lifestyle

Metals and non-metals, groups and periods. Elements of groups 1, 2, 7 and 0.

Circuits and current, potential difference.

Waves  
Light reflections  
refraction  
Colour

Chemical reactions  
Word equations  
Burning fuels  
Thermal decomposition

Particle model  
States of matter  
Boiling

Plant and animals  
Specialized cells

**YEAR 8**

Light and sound

Forces

Reactions

Elements atoms and compounds

Particles and their behaviour.

Reproduction

Cells

Squashing and Stretching  
Drag forces  
Balanced and unbalanced forces.

Elements  
Atoms  
Compounds

Adolescence  
Reproductive systems  
Fertilization and implantation  
Development of the fetus  
Menstrual cycle

Circulation & Exercise

Describe the characteristics of fish, amphibians, reptiles, birds and mammals.

LIVING THINGS

ENERGY

LIVING THINGS

ENERGY

ANIMALS

MAKING CONNECTIONS

MAKING CONNECTIONS: Are some sunglasses safer than others?

**YEAR 6**

Compare the characteristics of the vertebrate groups.

Light & Reflection  
Draw ray diagrams.

Living things have changed over time.

Know a variety of components in a series circuit

Circuits, batteries & Switches

Identify the pattern between animals' size and heart rate and quote values as evidence.

The heart rate is the number of beats per minute.

MAKING CONNECTIONS: Human Timeline

ANIMALS

FORCES & SPACE

LIVING THINGS

FORCES & SPACE

MATERIALS

MATERIALS

**YEAR 5**

Gravity is a non-contact force that pulls objects together.

Describe air resistance and its effects.

A life cycle shows the changes an animal or plant goes through until the reproduction of a new generation when the cycle starts again.

The Earth and other planets orbit around the Sun.

To describe a broader range of materials and their properties

Labelling with a broader range of scientific vocabulary.

To know the factors that affect the time taken to dissolve, including temperature and stirring.

Understand where we use Science in every day situations

welcome