

Science set V

Curriculum Map: Year 10

AUTUMN TERM

- The skeleton
- The heart
- The lungs
- Effect of exercise on the body
- Nutrition
- Keeping healthy



The Human Body

Introduction to Animal Classification



- Sorting animals
- Using keys
- Classification systems
- Reptiles
- Birds
- Ambibians
- Fish
- Mammals

Mixtures and Separating mixtures



- Elements, compounds and mixtures
- Using the periodic table
- Uses of separation techniques
- Separation by filtration
- Soluble and insoluble substances
- Separation by distillation

Magnets and Electromagnets

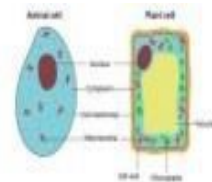


- Uses of magnets
- Attraction and repulsion
- Magnetic field patterns
- Uses of electromagnets
- Making an electromagnet
- Investigating the strength of an electromagnet

SPRING TERM

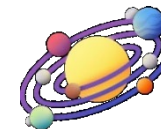
SUMMER TERM

Cells



- Plant and animal cells
- Specialised cells
- Features of specialised cells
- Using a microscope
- Preparing slides for viewing
- Observing and drawing cells
- Modelling cells

The Solar System



- Organisation of the solar system
- Planets in the solar system
- Moons
- The sun
- Space travel
- Asteroids and satellites

Pupils in set V continue to build on prior learning and work towards their AQA Unit Award Scheme Certificates in Year 10.

Science sets W, X, Y, Z

Curriculum Map: Year 10

AUTUMN TERM

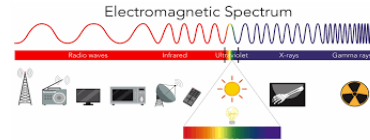
- Current, potential difference and resistance
- Series and parallel circuits
- Domestic supply and use of electricity



P2 Electricity

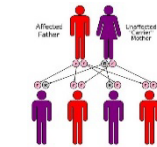


P6 Waves



- Transverse and longitudinal waves
- Electromagnetic waves
- Uses of electromagnetic waves
- Physics 1B ELC Test

B6 Inheritance



- Reproductive Systems
- Hormonal control of puberty
- Genetics of reproduction
- Inheritance
- Biology 1A ELC Test

C10 Using Resources



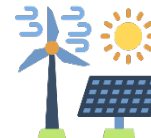
- Renewable and finite resources
- Sustainability
- Treatment of waste water
- Potable water

C4 Chemical Change



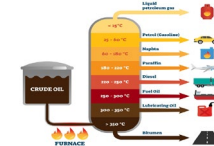
- Acids and Alkalis
- Extraction of metals
- Separating mixtures
- Chemistry 1B ELC Test

P1 Energy & P5 Forces recap



- Renewable and finite energy
- Forces
- Motion & stopping distances
- Physics 1A ELC Test

P7 Organic Chemistry



- Formation of crude oil
- Fractional distillation
- Alkanes and Alkenes
- Cracking

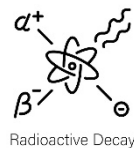
SUMMER TERM

P4 Atomic Structure



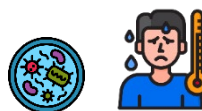
- Atoms and isotopes
- History of model of the atom
- Nuclear radiation

C2 Bonding structure and the properties of matter



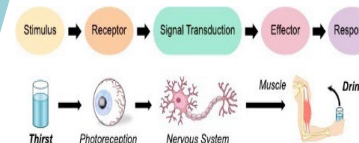
- Ionic, covalent and metallic bonding
- Allotropes of carbon
- Properties of matter
- Chemistry 1A ELC Test

B3 Infection and Response



- Communicable diseases
- Human defence systems
- Vaccinations
- Development of medicines
- Biology 1B ELC Test

B5 Homeostasis



- Homeostasis
- Control of blood glucose
- The human nervous system
- The endocrine system

Pupils follow topics from the AQA Trilogy GCSE scheme of work, adapted to ability levels. Each unit ends with a short test

The order of topics may change from the map to allow for sharing of lab space and resources.

Pupils also sit their Entry Level Science Certificate assessments in Year 10.