# Science Set V
## Curriculum Map: Year 9

### AUTUMN TERM

**The Human Body – Unit 1 Prt 1**

- The Human Body Skeletal system
- Organs of the human body
- Modelling Organs

**The Human Body – Unit 1 Part 2**

- Mental Health & well-being
- The heart & exercise
- Lung Capacity
- Medicines & their roles

### SPRING TERM

**Healthy Lifestyles**

- Physical Activity
- Emotional Wellbeing
- Routines supporting staying healthy

- Healthy and Unhealthy lifestyle choices
- Healthy & Unhealthy Food and Drink Categories

**Investigating Forces**

- Forces in everyday Situations
- Making a Parachute

- Height of a ramp and its effect on the distance travelled
- Participating in the Egg Drop Challenge

### SUMMER TERM

**Using a Microscope**

- Uses and the Different Parts of a Microscope
- Set-up a Microscope
- Prepare & view a slide of a Plant Cell

**Introduction to Forensics**

- Plant and animal cells
- Specialised cells
- Features of specialised cells

- Paper chromatography
- DNA fingerprinting
- Hair Analysis
- Blood groups
- Techniques to Collect Evidence
- Crime Scene Investigation

**Animal Mascots**

- Explore Animals from the Winter Olympics
- Identify How used as a mascot
- Research one of the animals represented (appearance, food source and habitat)

# Science Sets W,X,Y, Z Curriculum Map: Year 9

## AUTUMN TERM

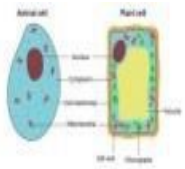
### P3 Particle Model of Matter

- Density of materials
- Internal Energy and Energy transfer
- Particle model of matter

### P1 Energy

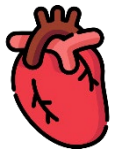
- Energy stores
- Energy changes
- Efficiency
- Energy Resources

### B1 Cell Biology



- Cell structure
- Transport in cells
- Cell division
- Specialisation

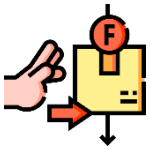
### B2 Organisation



- The vascular system
- Adaptations of the cardiovascular system
- Causes and treatment of heart disease

## SPRING TERM

### P5 Forces

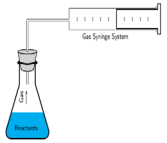


- Contact and non-contact forces
- Resultant forces
- Forces in Motion
- Newton's laws

### P7 Electromagnetism

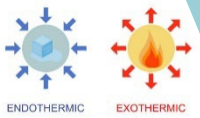
- Magnetic forces and fields
- Electromagnets
- The motor effect

### C6 Rate and Extent of Chemical Change



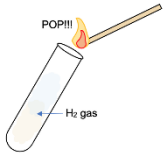
- Measuring rates of reaction
- Collision theory
- Factors affecting reaction rates
- Equilibrium

### C5 Energy Changes




- Endothermic reactions
- Exothermic reactions
- Energy profiles

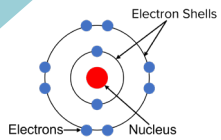
### C8 Chemical Analysis




- Chromatography
- Purity
- Formulations
- Testing for gases

## SUMMER TERM

### C1 Atomic Structure and the Periodic Table



Basic Atomic Structure

- Atoms, elements and compounds
- Structure of the atom
- The periodic table
- Reactivity

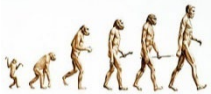
### C9 Chemistry of the Atmosphere

- Evolution of the atmosphere
- Greenhouse gases
- Global Warming
- Atmospheric pollutants

### B7 Ecology

- Adaptation, interdependence and competition
- Organisation of an ecosystem
- Biodiversity

### B6 Extinction and Evolution



- Theories of evolution
- Evidence for evolution
- Classification

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

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