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

AUTUMN TERM

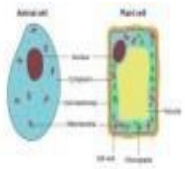
P3 Particle Model of Matter

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

P1 Energy

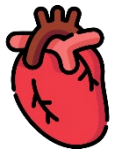
- Energy stores
- Energy changes
- Efficiency
- Energy Resources

B1 Cell Biology



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

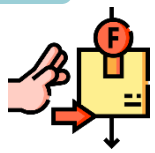
B2 Organisation



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

SPRING TERM

P5 Forces

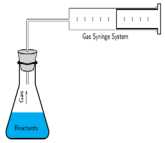


- Contact and non-contact forces
- Resultant forces
- Forces in Motion
- Newton's laws

P7 Electromagnetism

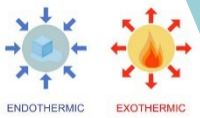
- Magnetic forces and fields
- Electromagnets
- The motor effect

C6 Rate and Extent of Chemical Change



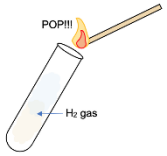
- Measuring rates of reaction
- Collision theory
- Factors affecting reaction rates
- Equilibrium

C5 Energy Changes



- Endothermic reactions
- Exothermic reactions
- Energy profiles

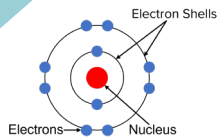
C8 Chemical Analysis



- 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

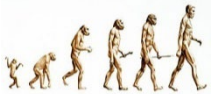
C9 Chemistry of the Atmosphere

- 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.