

Science - Triology (Year 11)

Curriculum Map 2024-2025



Exam Preparation

- Revision masterclasses
- Required practical's (practice and theory)
- Command words
- Application questions

Using resources

Sustainable development

Identifying and managing finite resources

Potable water

Treatment of rain water, sea water and waste water

Magnets and magnetic fields

- Current, magnetism and forces
- Magnetism and electromagnetism
- Motor effect

The Atmosphere

- Theories of the early atmosphere
- Explaining changes in the atmosphere over time
- The greenhouse effect and global warming
- Other pollutants from fuels

Mocks

Paper 2
Biology,
Chemistry &
Physics

Inheritance

- Sexual and asexual reproduction
- Meiosis and fertilisation
- DNA
- Describe cystic fibrosis and polydactyl
- Family trees
- Inheritance of sex

Chemical Analysis

- Pure substances, mixtures and formulations
- Chromatography method and analysis
- Gas tests

Forces Part 2

- Speed & velocity
- Interprets velocity time graphs
- Calculate acceleration
- Newtons 1st, 2nd and 3rd laws
- Stopping distances
- Momentum

Variation and Evolution

- Evolution by natural selection
- Evidence for evolution (fossils and resistant bacteria)
- Selective breeding
- Genetic engineering
- Classification

Mocks

Paper 1
Biology,
Chemistry &
Physics

Forces Part 1

- Scalar and vector quantities
- Contact and no contact forces
- Resultant forces
- Work done
- Elasticity
- Investigating the stretching of a spring

Rates of Reaction

- Affect rates of reaction
- Determine rates of reaction from investigation and data
- Explain rates of reaction using particle model

Homeostasis

- The nervous system
- Investigating reaction times
- The endocrine system
- Control of blood glucose
- The menstrual cycle
- Contraception
- Hormones to treat infertility
- Negative feedback