



Valentines High School

KS4 Separate Science Academic Learning Journey

Y11 Skills

- Analysis of results
- Interpreting observations and other data, including identifying patterns and trends
- Presenting reasoned explanations including relating data to hypotheses
- Evaluation of data
- Being objective, evaluating data in terms of accuracy, precision, repeatability and reproducibility
- Conclusion of patterns obtained
- Representing distributions of results and make estimations of uncertainty
- Display of correct data
- Presenting observations and other data using appropriate methods
- Translating data from one form to another

Y11 Knowledge

- Forces
- Waves
- Magnetism and electromagnetism
- Space Physics
- Cell Biology
- Organisation
- Infection and response
- Bioenergetics
- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes
- Energy



- Electricity
- Particle model of matter
- Atomic structure
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology
- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources