# Baines Science Year 11 Curriculum

| Half term 1 | | Half term 2 | | Half term 3 | | Half term 4 | | Half term 5 | Half term 6 |
|---|---|---|---|---|---|---|---|---|---|
| **Biology** | | | | | | | | | |
| Plant Structures and their Functions | | Animal coordination, control and homeostasis | | Exchange and transport in animals | | Ecosystems and material cycles | | Revision | Revision |
| *Core Practical: Investigate the effect of light intensity on the rate of photosynthesis* | | *Core Practical: Investigate the rate of respiration in living organisms* | | | | *Core Practical: Investigate the relationship between organisms and their environment using field-work techniques, including quadrats and belt transects* | | | |
| Prelim Exam | | | | Mock Exam | | | | **GCSE Paper 1 Exam** | **GCSE Paper 2 Exam** |
| **Chemistry** | | | | | | | | | |
| Reaction Rates and energy changes | Fuels and Earth Science | Earth and Atmospheric Science | Qualitative Analysis (separate only) | Hydrocarbons (separate only) | Polymers (separate only) | Alcohols and carboxylic acids (separate only | Bulk and Surface properties of matter (separate only) | revision | Revision |
| ***Core Practical – investigating reaction rates*** | | ***Core practical (separate only) identifying ions*** | | ***Cope practical – Investigating fuels (separate only)*** | | | | | |
| Prelim Exam | | | | Mock Exam | | | | **GCSE Paper 1 Exam** | **GCSE Paper 2 Exam** |
| **Physics** | | | | | | | | | |
| Energy, Forces Doing Work | Static Electricity (Separate only) | Electricity and Circuits | | Magnetism and the motor effect | Electromagnetic Induction | Particle Model, Forces and Matter | | Revision | Revision |
| | | *Core Practical: Construct electrical circuits to: a* | | | | *Core Practical: Investigate the densities of solid and liquids* | | | |

| | | | | | |
|---|---|---|---|---|---|
| | *investigate the relationship between potential difference, current and resistance for a resistor and a filament lamp b test series and parallel circuits using resistors and filament lamps* | | *Core Practical: Investigate the properties of water by determining the specific heat capacity of water and obtaining a temperature-time graph for melting ice* | | |
| Prelim Exam | | Mock Exam | | **GCSE Paper 1 Exam** | **GCSE Paper 2 Exam** |