



Science

“Science and everyday life cannot and should not be separated”

Rosalind Franklin

Course content

Pupils in Year 9 are taught all three separate sciences (Biology, Chemistry and Physics) by specialised teachers using a PQE bridging course until Christmas. After Christmas, Year 9 pupils will embark on the OCR Gateway 9-1 Combined Science specification, with Biology, Chemistry and Physics being taught separately by specialised teachers. There is a significant amount of practical work to allow pupils to develop their skills further.

PQE Bridging course topics

- Body Systems
- Plants and Animals
- Environment
- Chemical Reactions
- Analytical Techniques
- Acids and Alkalis
- Crude oil
- Motion
- Electricity and Magnetism
- Stopping Distances
- Energy Resources

Skills developed

- Application of scientific theory
- Practical Skills
- Numeracy in Science
- Scientific reasoning
- Scientific literacy
- Enquiry-based learning
- Graph drawing and analysis

OCR 9-1 GCSE Combined Science Topics		
Biology	Chemistry	Physics
Basic Microscopy DNA Enzymes Respirations Photosynthesis Movement of substances Mitosis and cell division Stem Cells Circulatory System	Purity and melting points Empirical formula Ionic and covalent bonding Properties of materials Conservation of mass Formulae of elements Equations Mole calculations Endo and Exo reactions	Atomic structure Particle model Density Specific Heat capacity Vectors Forces Newton's 1 st Law Momentum Work, energy, Power Hooke's Law

For more information

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