Birkenhead Park School

KS3 Curriculum Overview 2024-25

Subject: SCIENCE

Rationale of KS3 Curriculum:

Student knowledge will be built upon the foundation of Science skills and the Scientific Technique. They will learn to understand the processes and methods of Science through different types of enquiries and practical Science which will help them to see the impact and application Science has to the world around them.

They will begin to understand the importance of analysing and evaluating data in order to recognise patterns and make valid conclusions.

To prepare our students for the demands of GCSE Science, Yr9 will begin to study concepts in Biology, Chemistry and Physics in far greater depth, linking ideas learnt at KS3 and starting to develop and build upon these to the level required for KS4.

Sequence of Learning:

KS3	Term 1	Term 2	Term 3
Year 7	B1.1 Cells B2.1 Inheritance and the genome C1.1 Solutions and solubility C2.1 Atoms, elements, compounds and mixtures P1.1 Forces P2.1 Heating and cooling	B3.1 Interdependence B4.1 Variation C3.1 Chemical Change C3.2 Chemical reactions P3.1 Sound P5.1 The Solar System	B5.1 Health and disease C4.1 Air pollution and the water cycle C5.1 Earth's resources P4.1 Circuits
Year 8	B1.2 Cells to organ systems B2.2 Changes within an organism's lifetime C1.2 The periodic table C2.2 Evaporation C2.3 Chemical change P1.2 Moving by force P2.2 Floating and sinking	B3.2 Ecosystems B4.2 Classification C3.3 Acids and Alkalis C4.2 Chemical weathering P3.2 Light P5.2 Earth in space	B5.2 Human lifestyles and health C5.2 Weathering and erosion C5.3 Rock changes P4.2 Static electricity
Year 9	B1.3 Biochemistry B2.3 Reproduction C2.4 Chemical reactions C3.4 Energy and reactions P1.3 Further forces P3.3 Making images	B4.3 Evolution B5.3 Infectious disease P4.3 Magnets and electromagnets CC1-2 States of matter and separating mixtures CP1-2 Forces and Motion	CB1 Key concepts in Biology CC3-4 Atomic structure and the periodic table CP3 Conservation of energy