

Science Curriculum Overview

Year 7	Topics
Autumn 1	Starting Secondary Science Cells Forces
Autumn 2	Particles Reproduction
Spring 1	Energy stores Chemical reactions
Spring 2	Infectious diseases Revision and exams
Summer 1	Electricity basics Acids and alkalis
Summer 2	Waves Basics Separating mixtures

Year 8	Topics
Autumn 1	Nutrition and digestion Atoms, elements and compounds Electrical circuits
Autumn 2	Gas exchange and respiration Earth systems
Spring 1	Motion and forces Plants and photosynthesis
Spring 2	Magnets and electromagnets Buffer - investigation
Summer 1	Revision and exams Relationships in ecosystems
Summer 2	Reactants and products Energy resources

Year 9	Topics
Autumn 1	Inheritance and evolution Light and sound/pressure and moments
Autumn 2	Useful reactions Revision and Exams
Spring 1	Using resources Enrichment project (STEM)
Spring 2	Bridging materials Careers week
Summer 1	P1 - Fundamentals of physics B1 - Cells
Summer 2	B1 - Cells C1 - Fundamentals of chemistry

KS4 - GCSE

Biology

Year 10	Topics
Autumn 1	B2 – Organisation
Autumn 2	B2 – Organisation
Spring 1	B3 – Infection and Disease
Spring 2	B4 – Bioenergetics
Summer 1	B7 – Ecology part 1
Summer 2	Revision for Year 10 Exams

Year 11	Topics
Autumn 1	B7 – Ecology part 2
Autumn 2	B5 – Homeostasis
Spring 1	B6 – Inheritance and Variation
Spring 2	B6 – Evolution
Summer 1	Revision / GCSEs
Summer 2	GCSEs

Chemistry

Year 10	Topics
Autumn 1	Atomic structure and periodic table
Autumn 2	Bonding, structure and properties of matter
Spring 1	Chemical Calculations
Spring 2	Chemical Changes
Summer 1	Energy changes
Summer 2	Revision for Year 10 Exams

Year 11	Topics
Autumn 1	The rate and extent of chemical change Organic chemistry
Autumn 2	Chemical analysis
Spring 1	Chemistry of the atmosphere
Spring 2	Using Resources Reviewing required practical's
Summer 1	Revision / GCSEs
Summer 2	GCSEs

Physics

Year 10	Topics
Autumn 1	Energy Stores, Energy Transfers by Heating, Energy Resources
Autumn 2	Electric Circuits, Electricity in the Home,
Spring 1	Molecules and Matter
Spring 2	Atomic Structure
Summer 1	Knowledge Consolidation
Summer 2	Revision for Year 10 Exams

Science Curriculum Overview

Year 11	Topics
Autumn 1	Forces and Motion
Autumn 2	Waves, Year 11 Exams
Spring 1	Electromagnetism (plus Space for Triple)
Spring 2	Knowledge Consolidation / Revision
Summer 1	Revision / GCSEs
Summer 2	GCSEs