

Curriculum Overview

This comprehensive guide outlines the GCSE Science curriculum for Year 10-11 students, following the AQA specification. The curriculum is designed to develop scientific knowledge, practical skills, and prepare students for their final examinations.

Key Details

- **Subject:** Science (GCSE)
- **Grade Level:** Year 10-11
- **Examination Board:** AQA
- **Duration:** Full Academic Year

Biology Curriculum Breakdown

Unit	Key Topics	Duration	Assessment
Cell Biology	Cell structure, organization	6 weeks	Practical assessment
Organisation	Organ systems, health	6 weeks	Written exam
Infection & Response	Immune system, disease	5 weeks	Practical report
Bioenergetics	Photosynthesis, respiration	5 weeks	Practical investigation

Chemistry Curriculum

Unit	Key Topics	Duration	Assessment
Atomic Structure	Periodic table, bonding	6 weeks	Practical test
Quantitative Chemistry	Calculations, reactions	6 weeks	Mathematical assessment
Chemical Changes	Electrolysis, reactions	5 weeks	Practical investigation
Energy Changes	Endothermic/exothermic	4 weeks	Written exam

Physics Curriculum

Unit	Key Topics	Duration	Assessment
Energy	Conservation, transfers	6 weeks	Practical demonstration
Electricity	Circuits, current	5 weeks	Mathematical assessment
Particle Model	States of matter	4 weeks	Theoretical exam
Atomic Structure	Radioactivity	5 weeks	Practical investigation

Assessment Plan

Formative Assessments

- Regular class quizzes
- Practical skill evaluations
- Homework assignments

Summative Assessments

- Mock examinations
- End-of-unit tests
- Final GCSE examination preparation

Required Resources

- AQA GCSE Science Textbooks
- Laboratory equipment
- Digital simulation software
- Past examination papers

Practical Skills Development

- Scientific method application
- Data collection and analysis
- Experimental design
- Critical thinking in scientific contexts