

GCSE Science

AQA – new specification



Ready for Science? Exams and lessons

- Scientific calculator
- Long ruler
- Pencil
- Rubber
- Pencil sharpener



Topics

- Higher tier aimed at 4-9
- Foundation tier aimed at 1-5

Summary of content

Biology

- Cell biology
- Organisation
- Infection and response
- Bioenergetics
- Homeostasis and response
- Inheritance, variation and evolution
- Ecology

Chemistry

- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes
- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources

Physics

- Forces
- Energy
- Waves
- Electricity
- Magnetism and electromagnetism
- Particle model of matter
- Atomic structure

Summary of content

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics
5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology

Summary of content

1. Atomic structure and the periodic table
2. Bonding, structure and the properties of matter
3. Quantitative chemistry
4. Chemical changes
5. Energy changes
6. The rate and extent of chemical change
7. Organic chemistry
8. Chemical analysis
9. Chemistry of the atmosphere
10. Using resources

Summary of content

1. Forces
2. Energy
3. Waves
4. Electricity
5. Magnetism and electromagnetism
6. Particle model of matter
7. Atomic structure
8. Space physics

Exam Info

- No controlled assessment
- The exam time for each Separate science GCSE will be 3.5 hours (10.5 hours total).
- The exam time for Trilogy science will be 7.5 hours.
- Practical skills: 15% of GCSE marks
- Math: 10% of the marks in Biology, 20% in Chemistry, 30% in Physics



Practical skills and numeracy

- Trilogy Science 21 set practicals.
- Separate Sciences (BCP) 28 set practicals
- Student will record practical work in a lab book.
- Minimum expectation that students will be able to recall and apply mathematical formulae to quantitative problems.



Revision

Revision guide

Test papers on AQA website (old spec past papers can be used)

Bitesize Science – AQA

List of formulae

List of math skills

Command words

Specification



Internal assessment and tracking

PLC's – Personalised learning checklists

	A	B	C	D	E	F	G	H	I	J	K	L
		3.1 Cell structure	Eukaryotes, Prokaryotes, Animal and plant cells (16)	Cell specialisation and cell differentiation (10)	Microscopy (11)	Culturing microorganisms (5)	Chromosomes, mitosis and the cell cycle (13)	Stem cells (5)	Diffusion (5)	Osmosis (10)	Active transport (11)	3.2 Principles of organisation
2	Name											
3	M Parker											
4	R Collins											
5	G Smith											

Mock exams

- These help guide us into the tier of entry, so it is important that students revise
- Yr 11 w/b 8th January
- Yr 9 and 10 w/b 18th June

- Real exams start 15th May

