

GCSE AQA Science

Required Practical Investigations Paper 1

Biology Paper 1

Unit 1 – Cell Biology

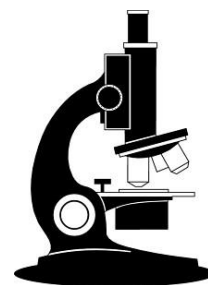
Required Practical – Using a microscope

YouTube links: [Using a light microscope](#)

[Preparing a microscope slide \(Onion cell\)](#)

BBC Bitesize links: [Calculating magnification](#)

AQA Practical worksheet: [Method](#)



Triple Science only: Required Practical – Investigating the effects of antibiotics and antiseptics

YouTube links: [Creating a spread plate](#)

BBC Bitesize links: [Growing microbes in the lab](#)

AQA Practical worksheet: [Method](#)

Required Practical – Osmosis (potato practical)

YouTube links: [Investigating Osmosis](#)

BBC Bitesize links: [Osmosis overview](#) [Osmosis in cells](#)

AQA Practical worksheet: [Method](#)

Unit 2 – Organisation

Required Practical – Testing for carbohydrates, lipids and proteins

YouTube links: [Food test](#)

BBC Bitesize links: [Food testing](#)

AQA Practical worksheet: [Method](#)

Required Practical – Investigate the effect of pH on Amylase enzyme

YouTube links: [Effect of pH](#)

BBC Bitesize links: [Enzymes](#) [Effect of pH on enzymes](#) [Digestive Enzymes](#)

AQA Practical worksheet: [Method](#)

Unit 3 – Infection and response

No required practical investigations for this unit

Unit 4 – Bioenergetics

Required Practical – Investigating effect of light intensity on photosynthesis

YouTube links: [Light intensity with pond weed](#)

BBC Bitesize links: [Factors effecting photosynthesis](#) [Light intensity investigation](#)

AQA Practical worksheet: [Method](#)

Chemistry Paper 1

Unit 1 – Atomic Structure and the periodic table

No required practical investigations for this unit

Unit 2 – Bonding, structure, and the properties of matter

No required practical investigations for this unit

Unit 3 – Quantitative chemistry

No required practical investigations for this unit

Unit 4 – Chemical changes

Required Practical – Creating a soluble salt

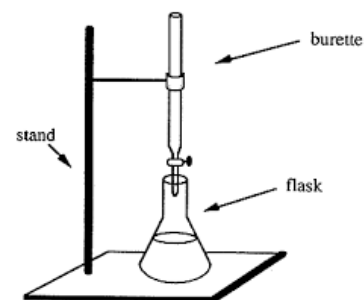
YouTube links: [Making salts](#)

[Visual method](#)

BBC Bitesize links: [Making salts](#)

[Copper sulphate production](#)

AQA Practical worksheet: [Method](#)



Triple Science only: Required Practical – Titrations

YouTube links: [Titration method](#)

BBC Bitesize links: [Carrying out a titration](#)

[Titrations](#)

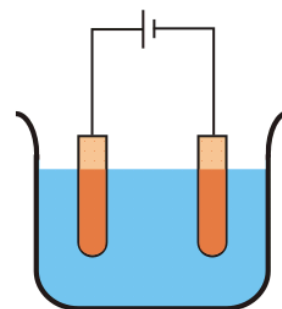
AQA Practical worksheet: [Method](#)

Required Practical – Electrolysis

YouTube links: [Electrolysis](#)

BBC Bitesize links: [Electrolysis](#)

AQA Practical worksheet: [Method](#)



Unit 5 – Energy changes

Required Practical – Temperature changes

YouTube links: [Temperature changes practical](#)

BBC Bitesize links: [Exothermic and Endothermic reactions](#)

AQA Practical worksheet: [Method](#)

Physics Paper 1

Unit 1 – Energy

Required practical – Specific heat capacity

YouTube links: [Specific heat capacity](#)

BBC Bitesize links: [Specific heat capacity](#)

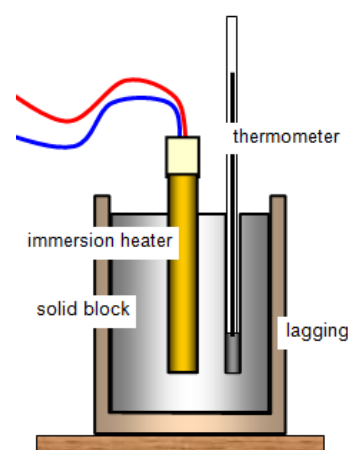
AQA Practical worksheet: [Method](#)

Triple Science only: Required Practical – Testing Insulators

YouTube links: [Thermal insulators](#)

BBC Bitesize links: [Insulation](#)

AQA Practical worksheet: [Method](#)



Unit 2 – Electricity

Required practical – Resistance of a wire

YouTube links: [Resistance of the wire](#)

BBC Bitesize links: [Resistance \(general\)](#) [Current, voltage, resistance](#)

AQA Practical worksheet: [Method](#)

Required practical – Generating I-V graphs

YouTube links: [Practical method](#) [Graph characteristics in detail](#)

BBC Bitesize links: [Current-Voltage graphs](#)

AQA Practical worksheet: [Method](#)

Unit 3 – Particle model of matter

Required practical – Calculating density

YouTube links: [Density of regular objects](#)

[Density of irregular objects](#)

BBC Bitesize links: [Density](#)

[Density equation](#)

AQA Practical worksheet: [Method](#)