Supporting your child with their Science GCSEs

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Director of Science



inspire · aspire

Year 11 Science Curriculum



- ■Finished teaching new content for combined classes ☐ Finishing teaching new content for separate classes this half term (with revision interleaved) ■Lesson time is used for targeted and structured revision
- based on class needs
- ■December Mock Exams Paper 1
- Upcoming: in class assessment on Paper 2 content

Year 11 Tiers of Entry



☐ Based on performance in mocks and current assessment final tiers of entry will be decided for Year 11 students ☐ Combined students need to be entered for the same tier across all three sciences ☐ Separate students can be entered for different tiers ☐ Based on AQA advice: ■ Students estimated below a grade 5 should be entered for the Foundation Tier

■ Students estimated above a grade 5 should be entered for the Higher Tier

Answering Questions



□6 mark questions
☐Bullet point responses – to the point
□ Check the command word in the question e.g. <i>Compare</i> – give similarities and differences e.g. <i>Evaluate</i> – give advantages and disadvantages

Answering Questions

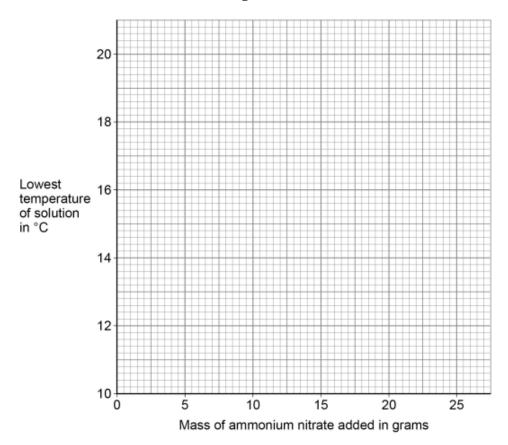


0 2 . 2 Plot the data from Table 2 on Figure 2.

Draw a line of best fit.

[3 marks]





☐Graph Drawing Questions

- ☐Sharp pencil
- ☐Clear points
- Line of best fit equal distribution of points

Answering Questions



A student does a titration using sodium carbonate solution and nitric acid.

The equation for the reaction is:

$$Na_2CO_3 + 2HNO_3 \rightarrow 2NaNO_3 + CO_2 + H_2O$$

25.0 cm³ of 0.124 mol/dm³ sodium carbonate solution is neutralised by 23.6 cm³ of nitric acid.

Calculate the concentration of the nitric acid.

Give your answer to 3 significant figures.

You should calculate:

- the number of moles of sodium carbonate in 25.0 cm³ of the solution
- the number of moles of nitric acid in 23.6 cm³ of the nitric acid
- the concentration of the nitric acid in mol/dm³.

[5 marks]

Concentration (3 significant figures) =

- ☐Show all working out
- □Write all numbers down
- ☐ Write down equations used

Revising for Science



Learn and be able to recall key facts, terminology and definitions



Learn key details in required practical methods



Apply knowledge to different situations

- ☐ Use of revision guides
- ☐ Flashcards (creating own or App)
- BBC Bitesize
- ☐ GCSE Pod
- ☐ Tassomai
- ☐ YouTube Videos in particular "Cognito Science"

- ☐ Use of revision guides
- ☐ YouTube Videos Malmesbury Science
- ☐ Required Practical Guides

- ☐ Use of workbooks
- ☐ Past paper questions (Physics and Maths tutor website)
- Tassomai

Accessing Revision Resources











▼ Main Channels

General

English

Maths

Science

Revision Resources



Physics and Maths Tutor

 Resources for Biology, Chemistry and Physics

Notes

- Definitions
- Flashcards

Summary Notes

- 1.1. A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes
- . 1.2. The periodic table
- . 1.3. Properties of transition metals

Mind Maps

- 1.1. A Simple Model of the Atom, Symbols, Relative Atomic Mass, Electronic Charge and Isotopes
- 1.2. The Periodic Table
- 1.3. Properties of Transition Metals

Videos

- 1.1. A simple model of the atom, symbols, relative atomic mass, electronic charge and isotopes
- . 1.2. The Periodic Table
- 1.3. Properties of Transition Metals

PMT Shop

· Printed AQA Chemistry Resources

Questions by Topic

2018-2021 papers

- 1.1 A Simple Atomic Model MS
- 1.1 A Simple Atomic Model QP
- 1.2 The Periodic Table MS
- 1.2 The Periodic Table QP
- 1.3 Properties of Transition Metals MS (separate only)
- 1.3 Properties of Transition Metals QP (separate only)

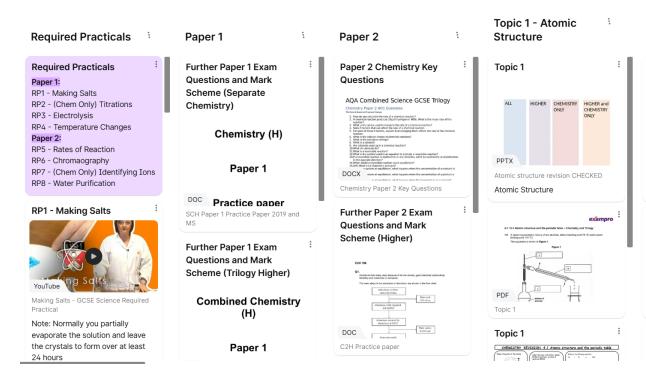
pre-2018 papers

Questions selected for the current specification

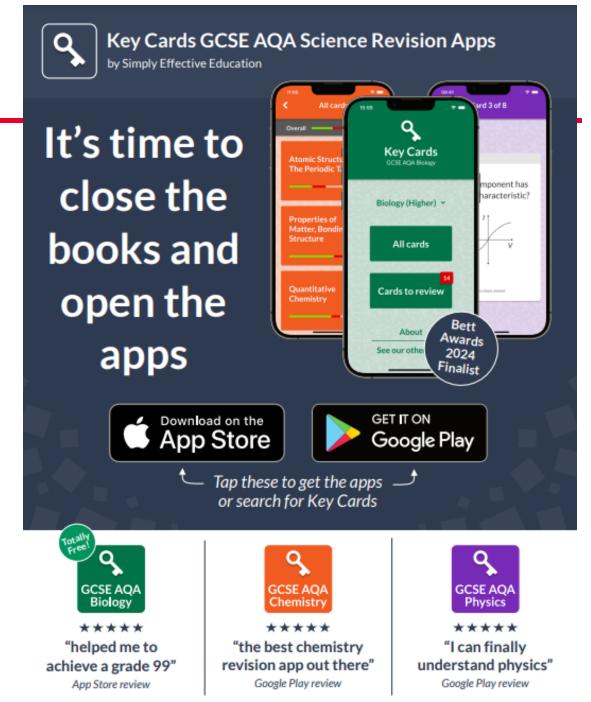
- 1.1 A Simple Atomic Model 1 MS
- 1.1 A Simple Atomic Model 1 WS
 1.1 A Simple Atomic Model 1 QP
- 1.1 A Simple Atomic Model 2 MS
- 1.1 A Simple Atomic Model 2 QP
- 1.1 A Simple Atomic Model 3 MS
- 1.1 A Simple Atomic Model 3 MS
- 1.1 A Simple Atomic Model 3 QP
- 1.2 Periodic Table 1 MS
- 1.2 Periodic Table 1 QP
- 1.2 Periodic Table 2 MS
- 1.2 Periodic Table 2 QP
- 1.2 Periodic Table 3 MS
- 1.2 Periodic Table 3 QP
- 1.3 Properties of Transition Metals 1 MS
- 1.3 Properties of Transition Metals 1 QP
- 1.3 Properties of Transition Metals 2 MS
- 1.3 Properties of Transition Metals 2 QP1.3 Properties of Transition Metals 3 MS
- 1.3 Properties of Transition Metals 3 QP

Department Padlet Sites

Past Paper Questions, Revision Placemats,
 Video Links, Links to access are on Limitless
 Potential and Teams



Revision Resources



GCSE Science Exam Dates 2025



Tuesday 13 May 2025

Biology Paper 1

- 1. Cell Biology
- 2. Organisation
- 3. Infection and Response
- 4. Bioenergetics

Monday 9 June 2025

Biology Paper 2

- 5. Homeostasis and response
- 6. Inheritance, variation and evolution
- 7. Ecology

Monday 19 May 2025

Chemistry Paper 1

- Atomic Structure & The Periodic Table
- 2. Bonding and Structure
- 3. Quantitative Chemistry
- 4. Chemical Changes
- 5. Energy Changes

Friday 13 June 2025

Chemistry Paper 2

- 6. Rates and Equilibrium
- 7. Organic Chemistry
- 8. Chemical Analysis
- 9. Chemistry of the Atmosphere
- 10. Using Resources

Thursday 22 May 2025

Physics Paper 1

- 1. Energy
- 2. Electricity
- 3. Particle Model of Matter
- 4. Atomic Structure

Monday 16 June 2025

Physics Paper 2

- 5. Forces
- 6. Waves
- 7. Magnetism and Electromagnetism
- 8. Space (Separate Only)