

Year 11
Science Revision



Ousedale
School

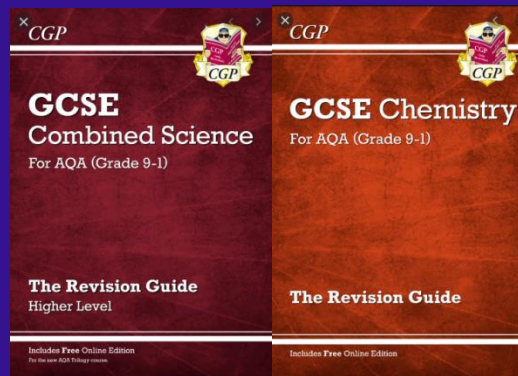
Biggest problems in science

- Sheer amount of content
- Exam board mark schemes very inflexible around use of terminology / must demonstrate high language level
- Extended writing
- Required practicals
- Numeracy



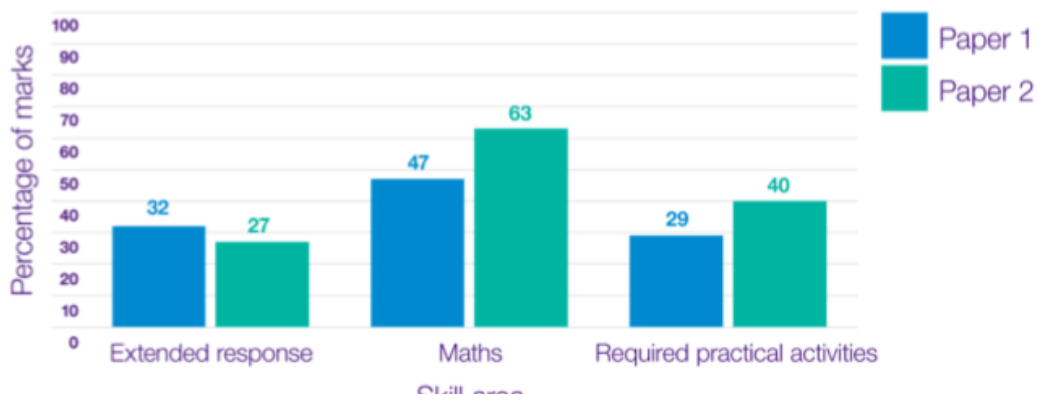
Content / terminology

- Session 6
- My GCSE science – video tutorials and questions
- Seneca Learning – tutorials and questions using an algorithm
- CGP Revision guides
- Past papers

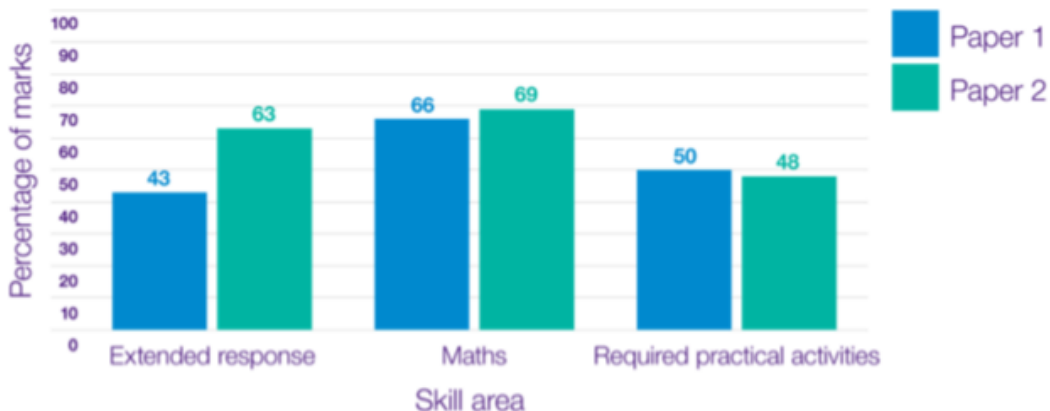


What AQA says about the first 9-1 Biology Exam sat nationally

Performance of students by skill area – Foundation



Performance of students by skill area – Higher

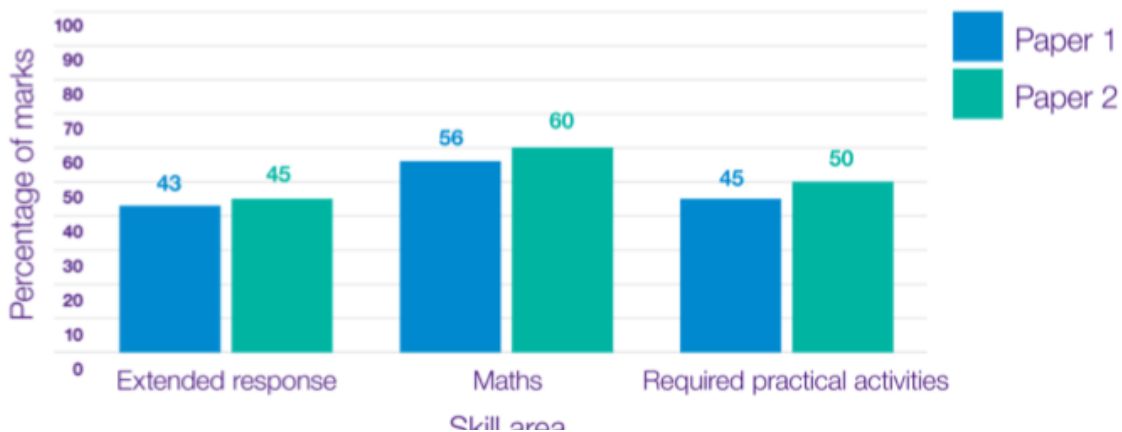


6 mark questions and maths a problem on Foundation and first Biology paper
Required Practical questions a problem



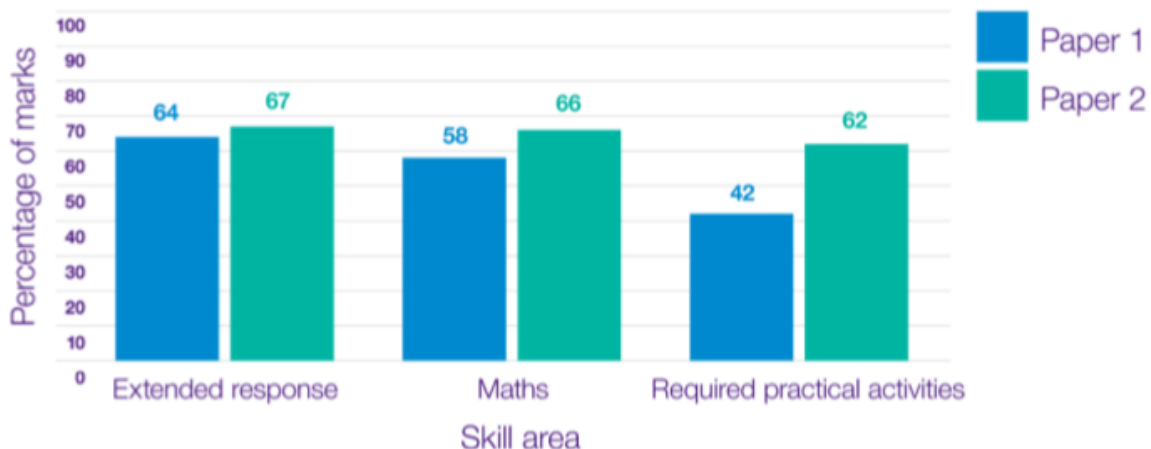
Chemistry

Performance of students by skill area – Foundation



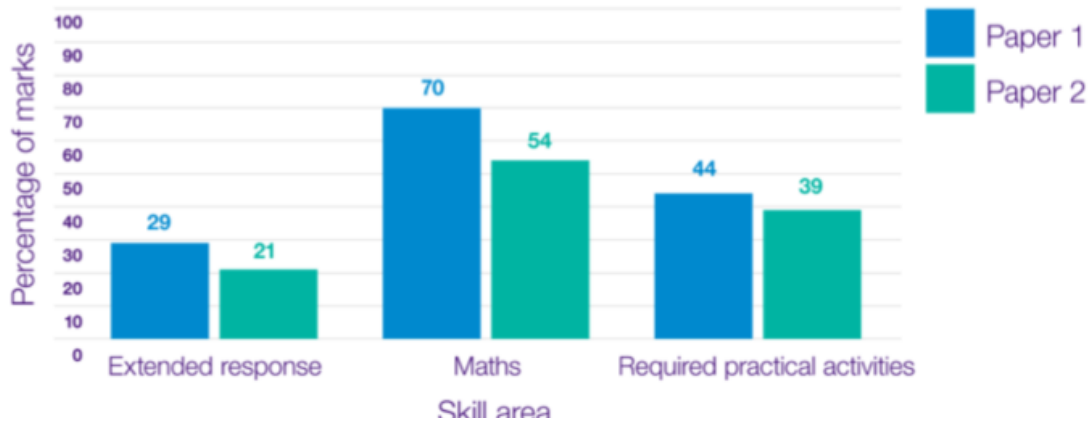
6 mark questions a problem on Foundation Required Practical questions a problem

Performance of students by skill area – Higher

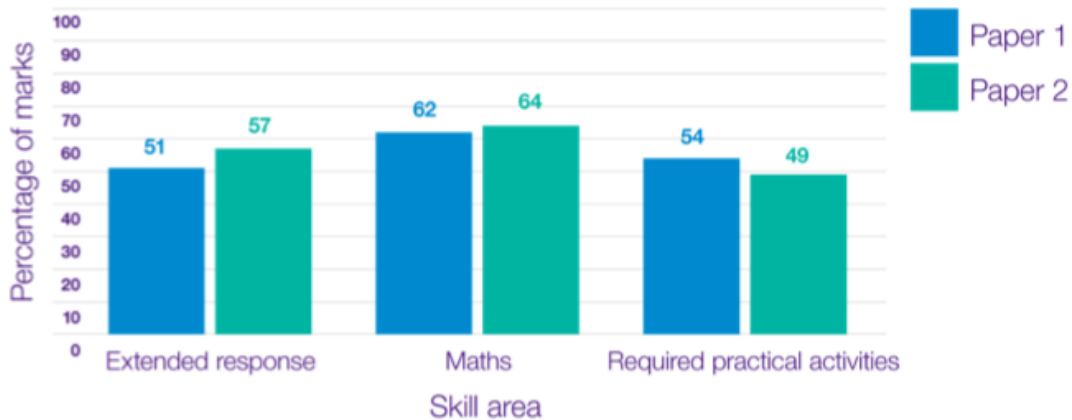


Physics

Performance of students by skill area – Foundation



Performance of students by skill area – Higher



6 mark questions a problem on Foundation



6 mark questions

Often students just write down everything they know about the topic.

However, it is essential to decode the question i.e use a highlighter to identify command words and topic areas.
Describe, explain, compare, contrast, evaluate, and

Quickly plan your answer before writing

Essential to address all aspects of the question

At least 6 or 7 different points



Required Practicals

Not enough to just memorise how to carry out a practical but students need to show why each step is done and understand what kind of result they are going to get and why

Watch for them giving you what appears to be a practical that students have never done before but is actually just a twist e.g. osmosis

Students need to know how to draw conclusions from graphs, spot anomalies and evaluate results.



The issue

- Numeracy

Fewer candidates gained the marks in the questions requiring them to recall equations. Often when an equation had been recalled the student was then unable to rearrange it so that an answer could be calculated correctly.

The concept of significant figures was not well understood.

- *Only 15% of candidates gained the mark requiring the use of standard form.*



Maths in Science

- 20 + formula across the 2 papers to memorise.
- These will be on the learning zone
- Use flash cards / mnemonics
- Jupiter = my cat
- $E = mc\Delta T$
- Joules = mass x specific heat capacity x temperature change

