

Year 11  
Science Revision



Ousedale  
School

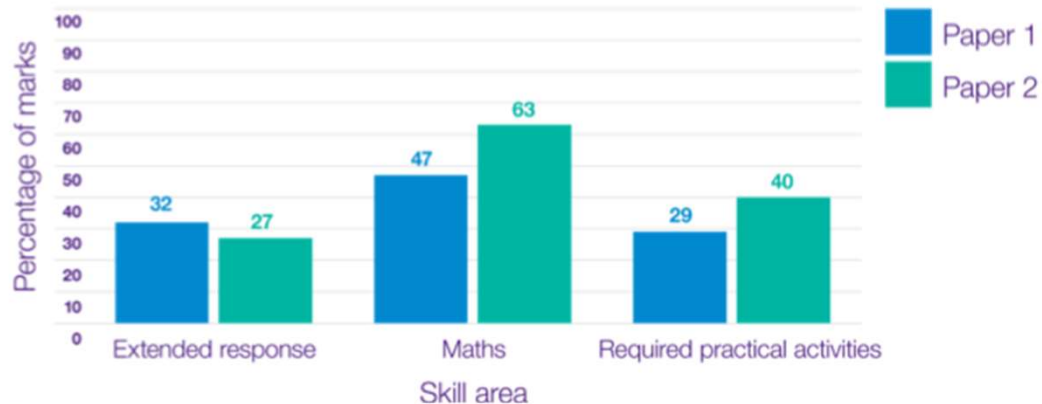
# Biggest problems Students have in science

- Sheer amount of content
- Exam board mark schemes very inflexible around use of terminology / must demonstrate high language level
- Extended writing
- Remembering required practical's
- Numeracy and graph questions

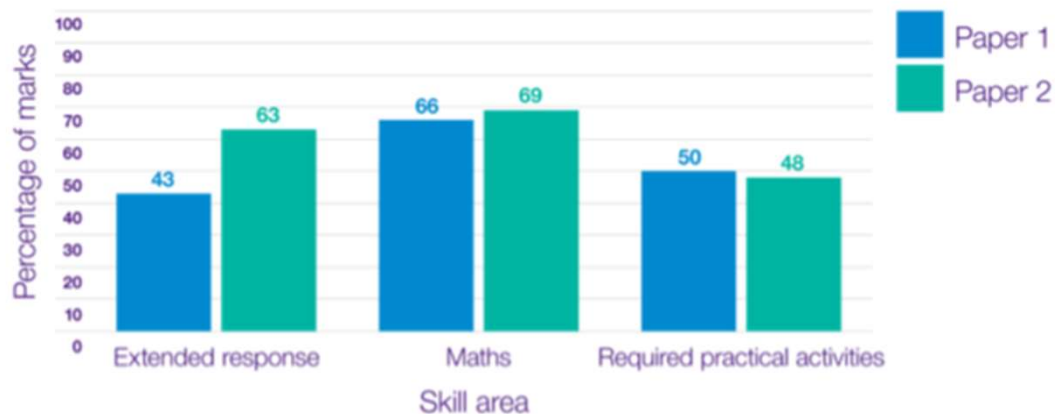


# What AQA says about the Biology Exam

Performance of students by skill area – Foundation



Performance of students by skill area – Higher



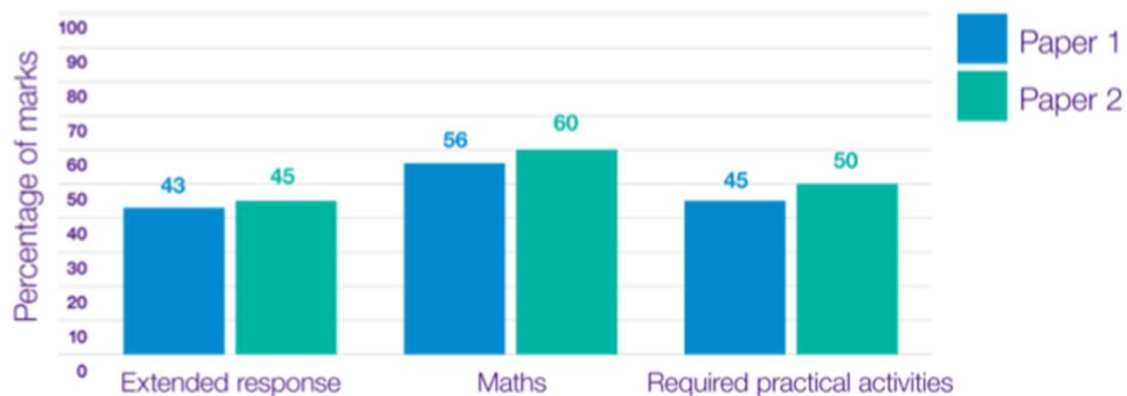
AQA GCSE Biology

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

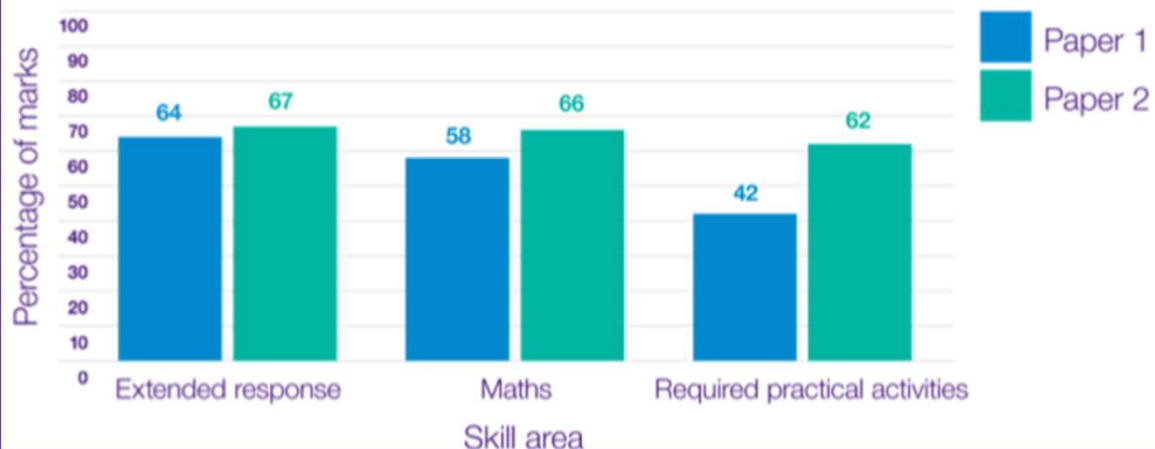


# Chemistry

Performance of students by skill area – Foundation



Performance of students by skill area – Higher

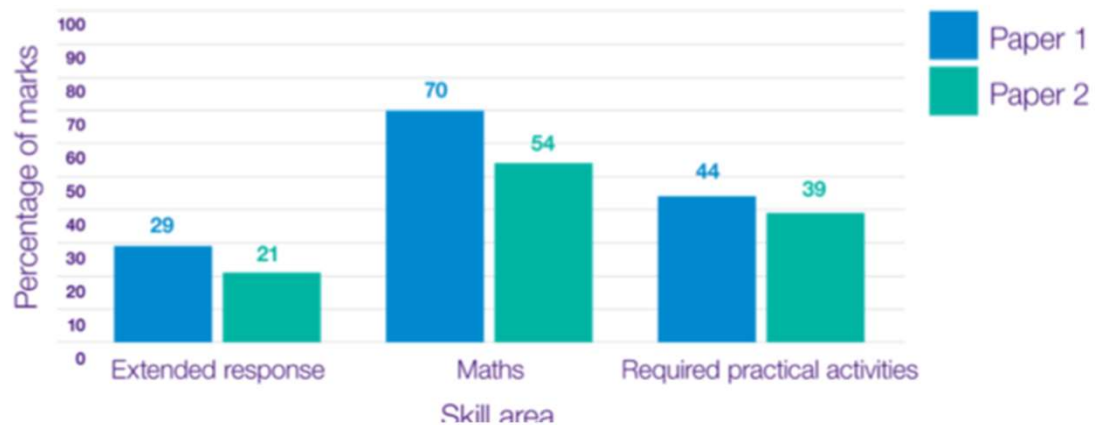


6 mark  
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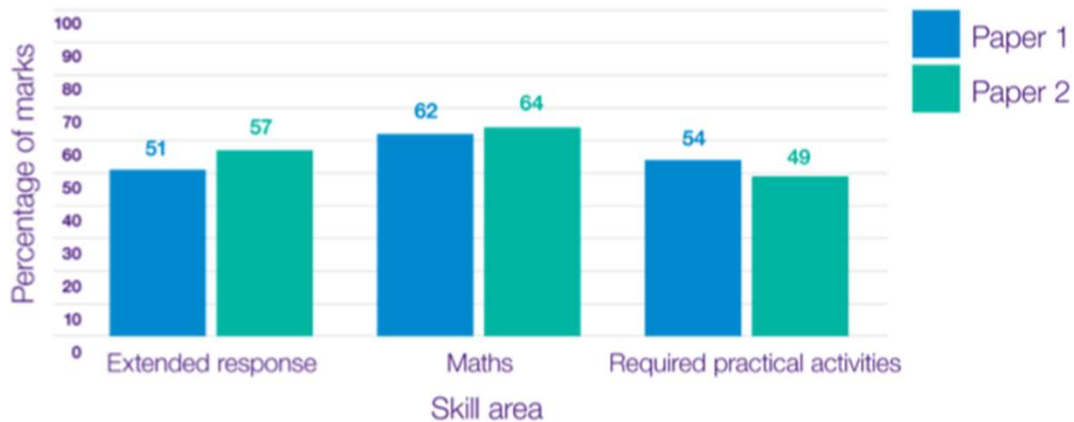


# Physics

Performance of students by skill area – Foundation



Performance of students by skill area – Higher

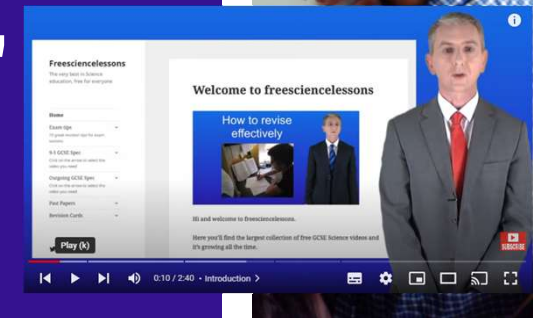
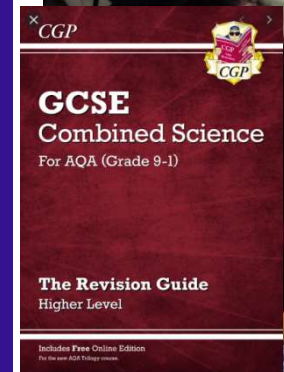
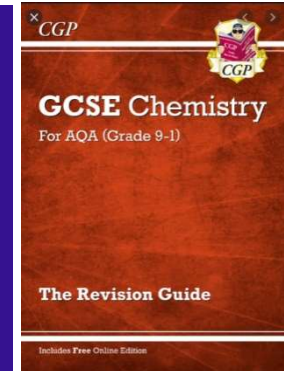


6 mark  
questions a  
problem on  
Foundation



# Support with Content / terminology

- Session 6
- Youtube – video tutorials
- Seneca Learning – tutorials and exam questions using an algorithm, AI helper and predicted past papers
- CGP Revision guides
- Past papers - "Year 11 students"



# 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

Come up with at least 6 or 7 different points



# Examples

- 1) Underline key points and use every piece of information
- 2) Learn key words off by heart
- 3) Never start an answer with it!
- 4) Use linking words such as "because", "this means that" "therefore" to explain something

Essentially, what we are asking of you, is to reinforce the messages we give, so that our voices are not in isolation. Science is hard, but there are simple things that students can do to make it easier, and if you are saying the same at home this will help.

## 3.4 Interpretation of 'it'

Answers using the word 'it' should be given credit only if it is clear that the 'it' refers to the correct subject.





# Required Practicals

10 per subject, 7 in combined.

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

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 with carrots

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



# The issue

- Numeracy

*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.*

*Combining two equations together was poorly answered*

**SHOW YOUR WORKING!!!!**



# In Summary

- Encourage students to practice answering exam-style questions regularly to build their confidence and improve their exam technique.
- Encouraging independent learning: Encourage students to seek out additional resources and learning materials, such as textbooks, online resources, and session 6 activities.
- Encourage students to make flash cards and mind maps of the work
- Do not underestimate the amount of revision needed

