



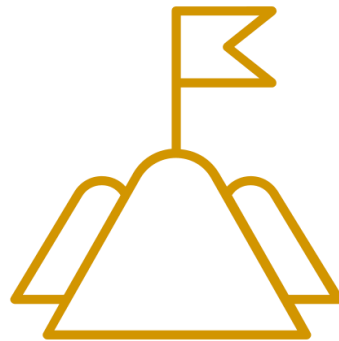
# Year 11 Raising Achievement Evening

Science | Grade 7-9



# Creating the Vision

Creating a climate for great learning, success and opportunity



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# Grade 7-9 | Key Knowledge

- For combined science and triple science students

## Biology Topics:

Paper 1 – Cell biology; Organisation; Infection and response; and Bioenergetics.

Paper 2 – Homeostasis and response; Inheritance, variation and evolution; and Ecology.

## Chemistry Topics:

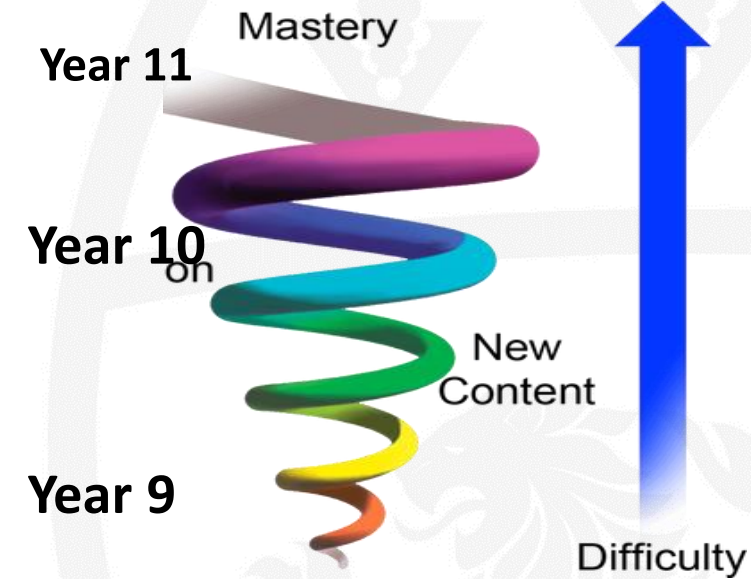
Paper 1 – Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

Paper 2 – The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

## Physics Topics:

Paper 1 – Energy; Electricity; Particle model of matter; and Atomic structure.

Paper 2 - Forces; Waves; Magnetism and electromagnetism; and Space physics.





# Grade 7-9 | Key Exam Skills

- Literacy – understanding of all keywords and concepts, being able to use these consistently to ‘explain’ or ‘support’ statements or observations.
- Application – you must be able to apply what you have done in lesson to different contexts or applications. It is not possible to cover all potential permutations of questions in class.
- Required practicals – identify variables, write methods, analyse results, spot errors, graph drawing – calculate gradients.

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# Grade 7-9 | Key Revision Advice for Mock Round 2

- Step 1: secure knowledge and topic specific literacy  
Quiz cards – great for learning keywords and definitions  
Mind maps – great for linking ideas
- Step 2 : past paper question practice – independent learning, timed, controlled





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

Key Idea Mind Maps (blank): Extra Maps

- 5. Homeostasis and response

End of Topic Tests

- Combined Science (Biology): Bioengneretics

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# Grade 7-9 | Learning Behaviours in the next 13 weeks

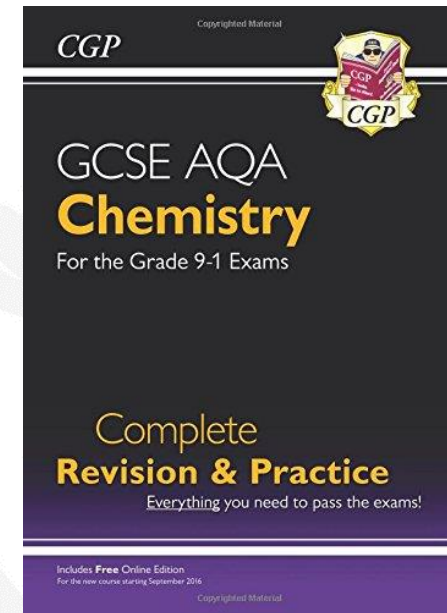
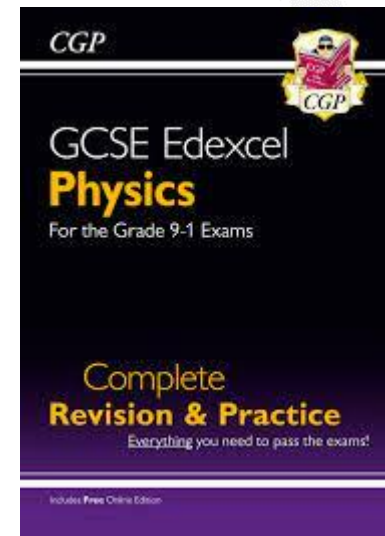
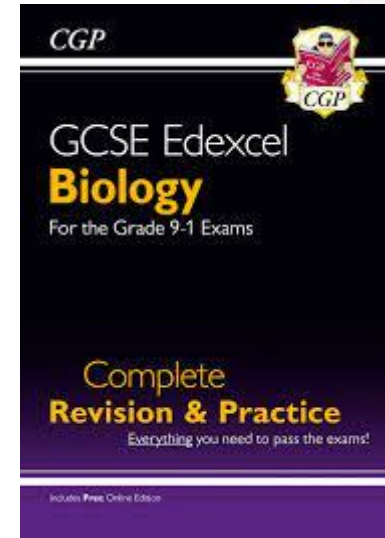
- Independent learners
- 100% attendance – lessons and any interventions you have been selected for – contributing in these and identifying areas for development
- Self evaluators – what are your areas of need
- Time managers





# Revision guides

- Independent study – both in and out of lesson



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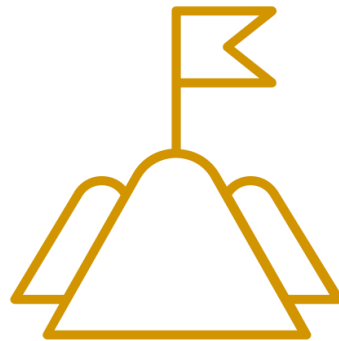
# Year 11 Raising Achievement Evening

Science | Grade 4-5



# Creating the Vision

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# Grade 4-5 | Key Knowledge

## Biology Topics:

Paper 1 – Cell biology; Organisation; Infection and response; and Bioenergetics.

Paper 2 – Homeostasis and response; Inheritance, variation and evolution; and Ecology.

## Chemistry Topics:

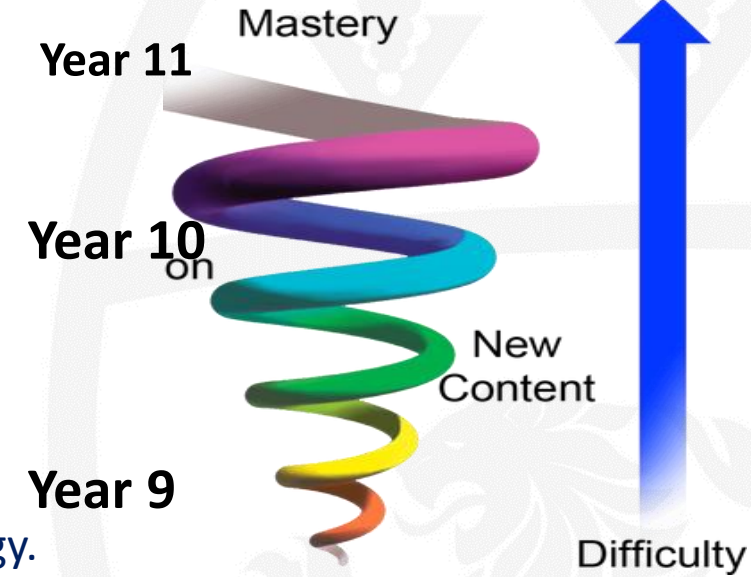
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Paper 2 – The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

## Physics Topics:

Paper 1 – Energy; Electricity; Particle model of matter; and Atomic structure.

Paper 2 - Forces; Waves; Magnetism and electromagnetism.





# Grade 4-5 | Key Exam Skills

- Literacy – know and define all topic specific keywords and being able to use these consistently ‘support’ statements or observations.
- Application – you must be able to apply what you have done in lesson to different contexts or applications.
- Required practicals – identify variables, write methods, analyse results, spot errors, graph drawing skills.





# Grade 4-5 | Key Revision Advice for Mock Round 2

- Step 1: secure knowledge and topic specific literacy  
Quiz cards – great for learning keywords and definitions  
Mind maps – great for linking ideas
- Step 2 : Doodle quizzes – ask your teachers!!!
- past paper question practice – independent learning, timed, controlled

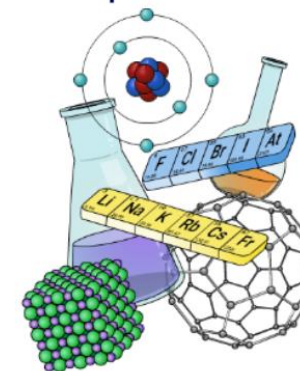


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## GCSE Chemistry (AQA) Calculating reaction rates mini quiz

This quiz will cover material from the AQA Chemistry specification and the AQA Combined Science specification, including:

- calculating rates of reactions
- interpreting graphs
- understanding tangents.



**25** marks available



this quiz is NOT timed



**1** attempt at each question

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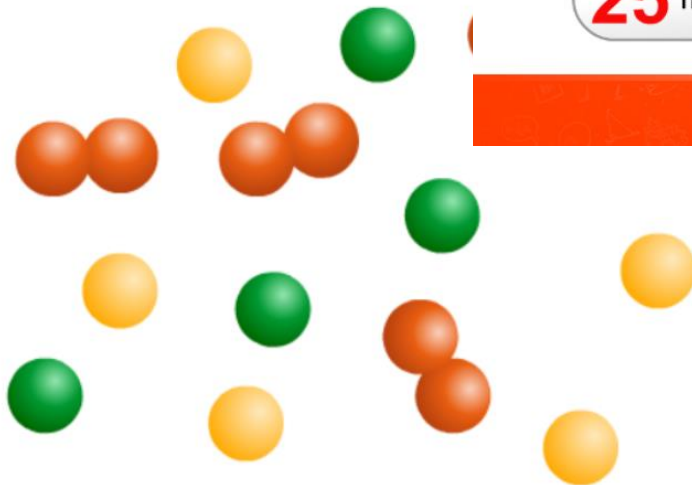


**Q** Complete the sentences about reaction rates.

Press on the FIVE gaps and choose the correct answers.

As a reaction progresses, the amount of reactants \_\_\_\_\_ and the amount of products \_\_\_\_\_.

Over time, reactions \_\_\_\_\_ because the concentration of reactants \_\_\_\_\_. This means that there are \_\_\_\_\_ collisions between particles.



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# Grade 4-5 | Learning Behaviours in the next 13 weeks

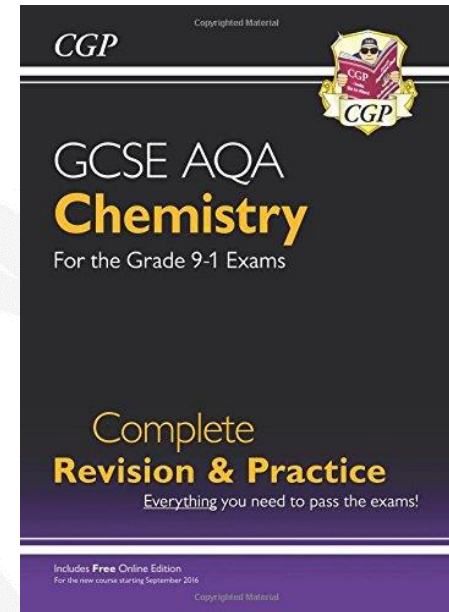
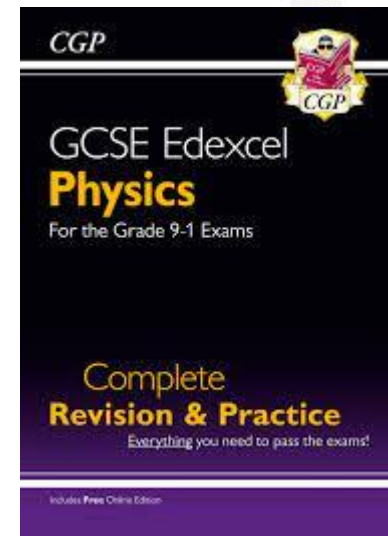
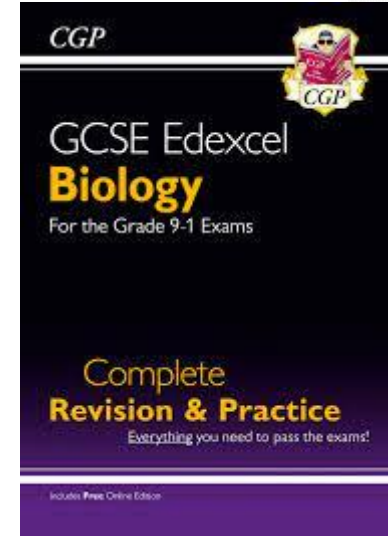
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