



## Science

### Revision resources

Most students study AQA combined science trilogy course ( double science) unless they have opted for triple science where they study AQA biology, chemistry and physics separate sciences. Students start studying GCSE science in Y9 and complete early in Y11 Each course involves 6 terminal exams. The exams consist of 40% recall and knowledge, 40% application of knowledge and 20% evaluation. Learning key facts is fundamental to success in science.

Combined science - 6 papers of 75mins each = 7 ½ hours exams		
paper 1 biology	paper 1 chemistry	paper 1 physics
paper 2 biology	paper 2 chemistry	paper 2 physics

separate sciences - 6 papers of 105mins each = 10 ½ hours exams		
paper 1 biology	paper 1 chemistry	paper 1 physics
paper 2 biology	paper 2 chemistry	paper 2 physics

Following the new AQA GCSE combined Science trilogy qualification in combined science. These can be explored in more detail on the exam board website.

<http://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464>

Following the new AQA GCSE Science qualifications for Biology, Chemistry and Physics. These can be explored in more detail on the exam board website.

<http://www.aqa.org.uk/subjects/science/gcse/biology-8461>

<http://www.aqa.org.uk/subjects/science/gcse/chemistry-8462>

<http://www.aqa.org.uk/subjects/science/gcse/physics-8463>

#### Revision Materials

Combined Science specimen papers- <http://www.aqa.org.uk/subjects/science/gcse/combined-science-trilogy-8464/assessment-resources>

Separate Science specimen papers-

<http://www.aqa.org.uk/subjects/science/biology-8461/assessment-resources>

<http://www.aqa.org.uk/subjects/science/chemistry-8462/assessment-resources>

<http://www.aqa.org.uk/subjects/science/physics-8463/assessment-resources>

All students have a kerboodle log on where they can access the textbooks, quizzes, checklists and worksheets [www.kerboodle.com](http://www.kerboodle.com) [ institution code gdw0].

Pixl science revision resources are password protected and are available to download from the student shared area/ science/y11 . These include checklists for each topic and revision resources to aid learning the key facts.



# HEANOR GATE SCIENCE COLLEGE

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“Create a culture of aspiration”



Revision guides and workbooks are available to buy from school or from amazon or CGP website  
[https://www.cgpbooks.co.uk/whoAreYou?page=books\\_gcse\\_science](https://www.cgpbooks.co.uk/whoAreYou?page=books_gcse_science)

Combined science £6	ISBN 9781782945598
Biology £6	ISBN 9781782945833
Chemistry £6	ISBN 9781782945840
Physics £6	ISBN 9781782945857

Lab books are being used to revise practical skills for the exams

Physics equation sheet provided via email- all equations need to be recalled as the sheet is not provided in the exam. It can also be found on the AQA website <https://www.aqa.org.uk/subjects/science/gcse/physics-8463/assessment-resources>

## Useful Apps/ websites

BBC Bitesize app

Gojimo app

Free science lessons [https://www.youtube.com/channel/UCqbOeHaAUXw9Il7sBVG3\\_bw](https://www.youtube.com/channel/UCqbOeHaAUXw9Il7sBVG3_bw)

Primrose Kitten <https://www.youtube.com/channel/UCBgymal8AR4QIK2e0EfJwaA>

(Ensure you use the new AQA 9-1 videos)

Focus Science App

Quizlet

## Parents

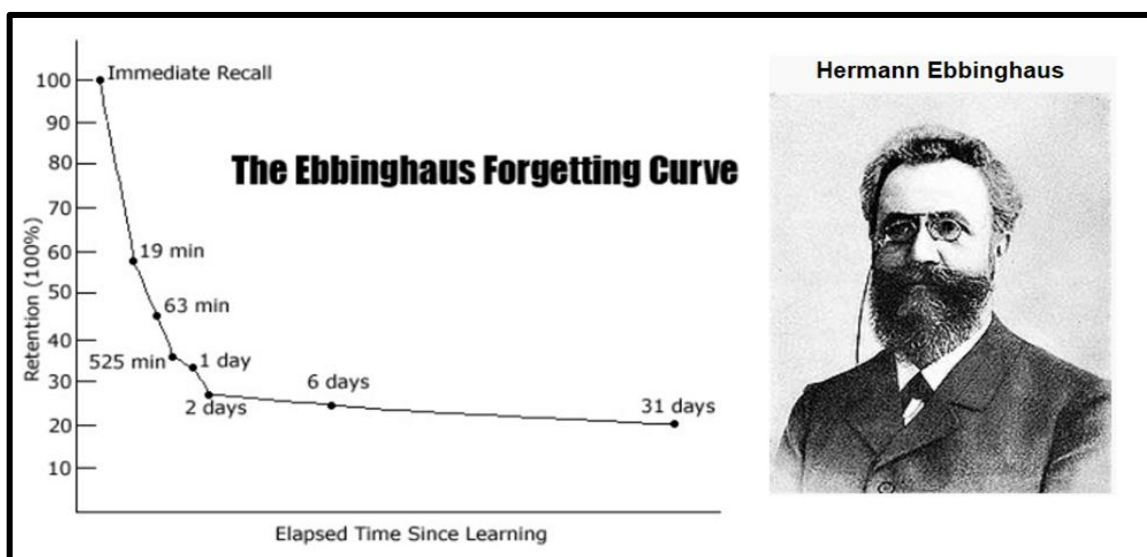
Parents can support students by:-

1. Ensure student has revision guide
2. Ensure student has a scientific calculator
3. Ensure student completes homework set on show my homework
4. A quiet area to revise without distractions (i.e mobile phones)
5. Support student with making a revision timetable
6. Help test student with revision guide / notes / flashcards etc



## How to revise

Hermann Ebbinghaus demonstrated that we become less able to remember and recall information as the time elapsed since first learning it increases. In other words, regular re-reading following learning improves your ability to remember, recall and ultimately understand what you have covered in lesson. Recent research shows that regular repeat testing and exam question practice are key to success



Technique	Effectiveness	Description of Technique
Practice Testing	High	Self-testing or using past-exam questions while learning.
Distributed practice	High	Developing a schedule of revisions / learning activities over time.
Elaborative Interrogation	Moderate	Thinking about 'why' you have answered a question or creating an explanation for a response.
Self-explanation	Moderate	Linking new information to known information or using applied questions (problem based learning).
Interleaved Practice	Moderate	Developing a schedule that mixes different techniques during a period of study.
Summarisation	Low	Writing summaries of concepts / area of study.
Highlighting	Low	The use of highlighters or underlining while read / rereading.
Keyword Mnemonic	Low	Use of key terms / acronyms / images to associate with concepts to be learned.
Imagery	Low	Attempting to form mental images of materials while reading.
Rereading	Low	Revisiting text that has already been read.

Table 1: Learning techniques and their effectiveness adapted from Dunlosky et al (2013) pg 6.