



Noadswood School Science Department

Parental Information to support
the Year 11 Parents evening

Key course information:

- Exam Board: AQA
- Course name: GCSE Combined Science

Or

- GCSE Separate Chemistry
- GCSE Separate Physics
- GCSE Separate Biology

Important recent assessments:

- Pupils have just completed their November Mock exams covering Paper 1 content.

Next important assessment:

- Pupils will sit Mock exams on 26th January, 1st February, and 3rd February, covering Paper 2 content.
- To find the content that applies to each paper, look inside the front cover of your CGP revision guide, or look on the 'science revision' page on frog.

Tips for success:

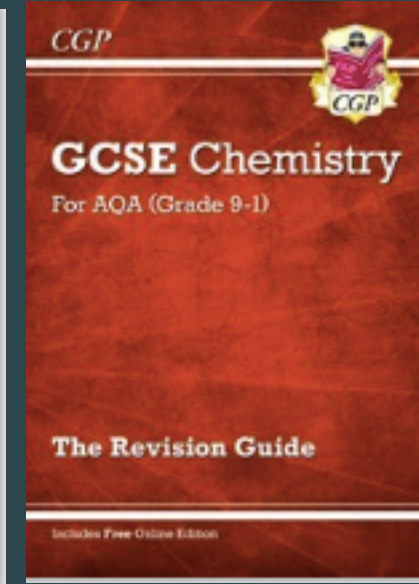
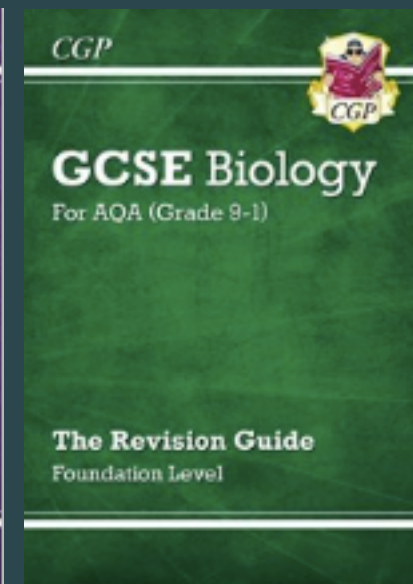
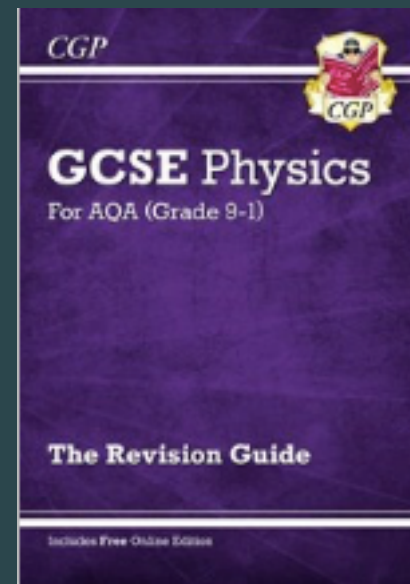
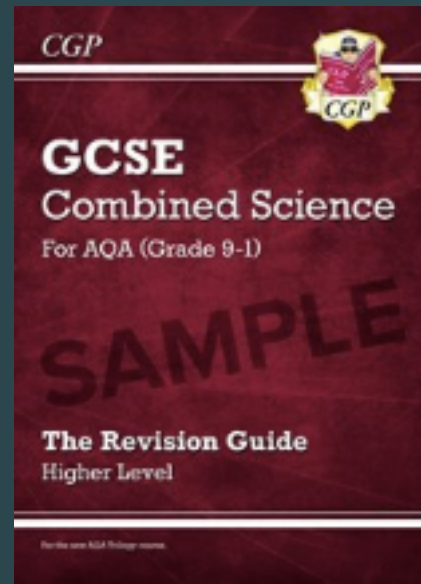
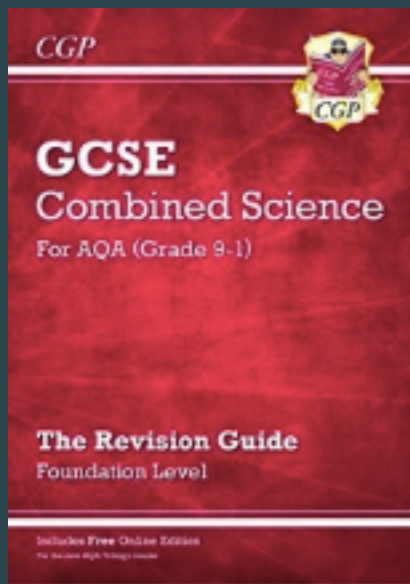
- Success in science comes from:
- Revising content until it is memorized.
- Practicing applying the content in exam questions until you are getting the correct answers.

Tips for success:

1. Revision timetable. (careful planning, little and often)
2. Organisation of resources (quiz cards, revision guides and practice questions, quick links to websites etc)
3. Producing key notes, summary sheets, imaginative mindmaps, using quiz cards, practicing exam questions.

Resources:

- CGP revision guide for AQA GCSE grades 1-9.



Resources:

The screenshot shows a search bar at the top with the text 'GCSE science revision' and a search button. Below the search bar, a dropdown menu displays 'Results' and 'GCSE Science Revision'. The main heading is 'GCSE Science Revision' with a sub-heading 'Find all your revision resources here.' Below this is a navigation menu with links: 'Home', 'Brainscape Cards', 'Videos', 'Past Papers', 'Practice Questions', 'Specification Checklists', 'Structured Revision Help', 'Updating Your Revision Guide', and 'Physics Equations'. The main content area features the heading 'Science Revision Resources' and the text 'Look at the tabs above to find an array of revision resources.' At the bottom, there is a large graphic with the AQA logo and the tagline 'Realising potential'.

Search for
'GCSE science
revision' on
frog

Paper Revision Cards



© www.gcserevisionmonkey.co.uk
More revision resources available online!

Paper 1

What equation links gravitational potential energy, mass, gravitational field strength and height?

AQA Combined Science - Physics Equations



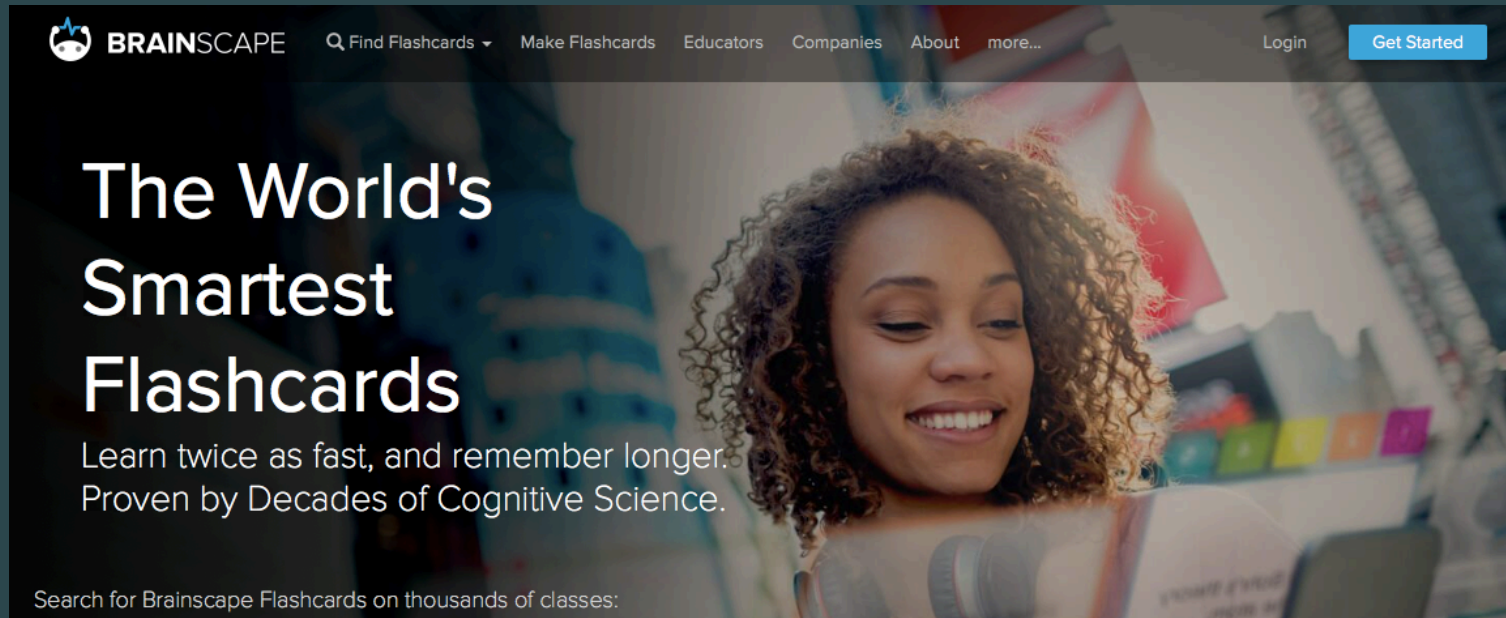
© www.gcserevisionmonkey.co.uk
More revision resources available online!

Answer

gravitational potential energy = mass x gravitational field strength x height

$$E_p = m g h$$

Brainscape links



The screenshot shows the Brainscape website homepage. At the top left is the Brainscape logo, a stylized brain with a blue pulse line. To its right is the text "BRAINSCAPE". Further right is a search bar with the text "Find Flashcards" and a dropdown arrow. Next to it are navigation links: "Make Flashcards", "Educators", "Companies", "About", and "more...". On the far right of the navigation bar are "Login" and a blue "Get Started" button. The main content area features a large image of a smiling woman with curly hair looking at a book. Overlaid on the left side of this image is the text "The World's Smartest Flashcards" in a large, white, sans-serif font. Below this is the tagline "Learn twice as fast, and remember longer. Proven by Decades of Cognitive Science." in a smaller white font. At the bottom left of the main content area, there is a search prompt: "Search for Brainscape Flashcards on thousands of classes:".

BRAINSCAPE Find Flashcards ▾ Make Flashcards Educators Companies About more... Login [Get Started](#)

The World's Smartest Flashcards

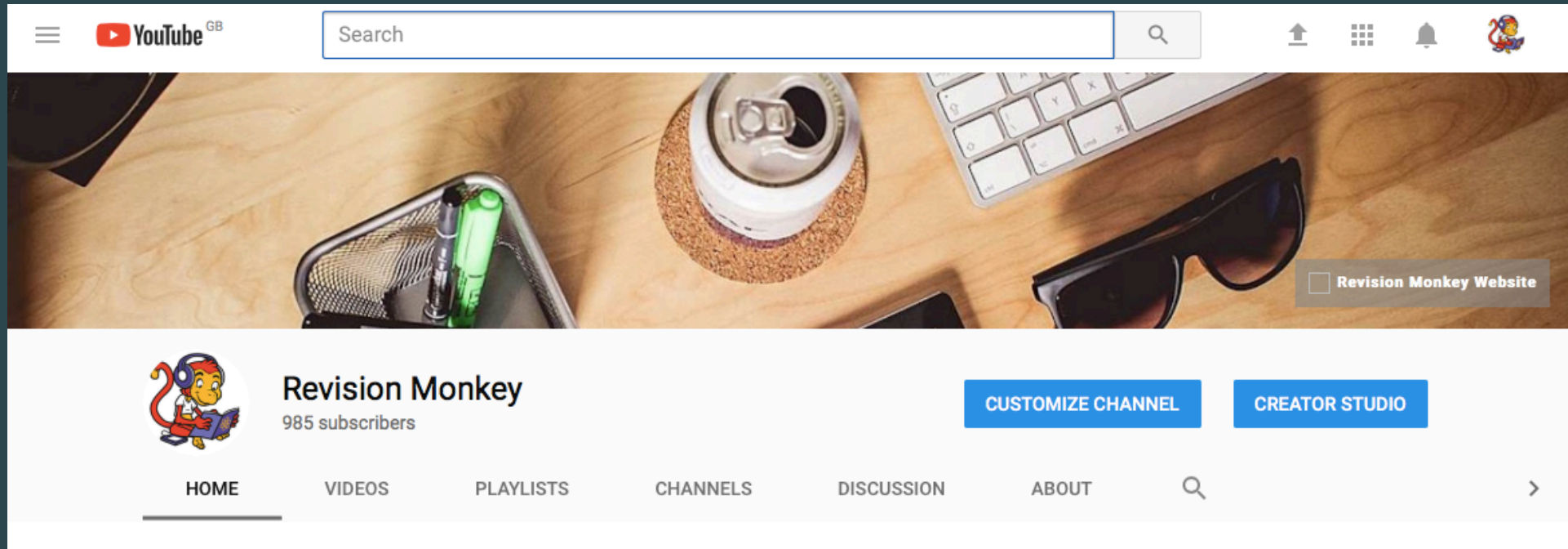
Learn twice as fast, and remember longer.
Proven by Decades of Cognitive Science.

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BRAINSCAPE

Revision Videos / Hangouts



- Revision Videos and Hangouts

Miss/Sir, what do I need to revise?

Paper 1		
Biology (1hr 15 mins)	Chemistry (1hr 15 mins)	Physics (1hr 15 mins)
Revision Guide Topics: Topic B1 – Cell Biology Topic B2 – Organisation Topic B3 – Infection and Response Topic B4 – Bioenergetics	Topic C1 – Atomic Structure and the Periodic Table Topic C2 – Bonding, Structure and Properties of Matter Topic C3 – Quantitative Chemistry Topic C4 – Chemical Changes Topic C5 – Energy Changes	Topic P1 – Energy Topic P2 – Electricity Topic P3 – Particle Model of Matter Topic P4 – Atomic Structure
Paper 2		
Biology (1hr 15 mins)	Chemistry (1hr 15 mins)	Physics (1hr 15 mins)
You will not take Biology Paper 2 in your December mocks	You will not take Chemistry Paper 2 in your December mocks	Topic P5 – Forces Topic P6 – Waves Topic P7 – Magnetism and Electromagnetism

Summary

- **Regular revision** is vital to success in Science.
- **Weekly homework** - issued to help with recall
- **GCSE science revision FROG Page** (accessible to pupils) giving detail on what topics to revise for each exam.

Combined Science: - All Content Covered already:

- B1 - Cell Biology
- B2 - Organisation
- B3 - Infection and Response
- B4 - Bio-energetics
- B5 - Homeostasis
- B6 - Inheritance, variation and evolution
- B7 - Ecology
- C1 - Atomic Structure
- C2 - Bonding, and properties of matter
- C3 - Quantitative chemistry
- C4 - Chemical Changes
- C5 - Energy Changes
- C6 - The rate of chemical change
- C7 - Organic chemistry
- C8 - Chemical analysis
- P1 - Energy
- P2 - Electricity
- P3 - Particle Model
- P4 - Atomic Structure
- P5 - Forces
- P6 - Waves
- P7 - magnetism and electromagnetism

Separate Science: - Content Covered already:

- B1 - Cell Biology
- B2 - Organisation
- B3 - Infection and Response
- B4 - Bio-energetics
- B6 - Inheritance, variation and evolution
- B7 - Ecology
- C1 - Atomic Structure
- C2 - Bonding, and properties of matter
- C3 - Quantitative chemistry
- C4 - Chemical Changes
- C5 - Energy Changes
- C6 - The rate of chemical change
- P1 - Energy
- P2 - Electricity
- P3 - Particle Model
- P4 - Atomic Structure
- P5 - Forces
- P6 - Waves
- P7 - magnetism and electromagnetism
- P8 - Space

Separate Science: - Content remaining to be covered:

- B5 - Homeostasis
- C7 - Organic Chemistry
- C8 - Chemical analysis

Combined Science vs. Separate Science

- Combined science is worth 2 GCSEs while the 3 separate sciences are worth 3 GCSE's
- Go from grades 1-9 and come in either Foundation Tier or Higher Tier
- Both provide a solid route into further education in science e.g. Physics, Biology or Chemistry A-level

Combined Science vs. Separate Science

- Separate science has always been offered to our top 2 sets, with the expectation that up to 15 or 20 pupils will move onto combined science.
- We recommend that only those pupils attaining the highest grades continue with separate science. Those pupils who are not quite reaching the very highest, we recommend that they do Combined science, as they will almost certainly perform better in those exams.

Further reading / sites:

- **Books**
- **Stephen Hawking - A Brief History of Time (0857501003)**
- **Richard Dawkins - The Selfish Gene (0199291152)**
- **Cosmos - Carl Sagan (0349107033)**
- **Einstein's Riddle - Jeremy Stangroom (1408801493)**
- **Bad Science - Ben Goldacre (000728487X)**
- **Six Easy Pieces - Richard P Feynman (0140276661)**
- **Why Big Animals are Rare - Paul Colinvaux (0140135650)**
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Podcasts

- **The Infinite Monkey Cage** > <https://itunes.apple.com/gb/podcast/the-infinite-monkey-cage/id343580439?mt=2>
- **Natural Histories** > <https://itunes.apple.com/gb/podcast/natural-histories/id1001143063?mt=2>
- **A History of the World in 100 Objects**
> <https://itunes.apple.com/gb/podcast/history-world-in-100-objects/id351096296?mt=2>
- **TED talks** > <https://itunes.apple.com/gb/podcast/tedtalks-audio/id160904630?mt=2>

Apps

- **Human Body** > <https://itunes.apple.com/gb/app/the-human-body-by-tinybop/id682046579?mt=8>
- **NASA Visualization** > <https://itunes.apple.com/gb/app/nasa-visualization-explorer/id448700202?mt=8>
- **Wonders of the Universe** > <https://itunes.apple.com/gb/app/brian-coxs-wonders-universe/id508465867?mt=8>
- **Wonders of Life** > <https://itunes.apple.com/gb/app/brian-coxs-wonders-of-life/id773114288?mt=8>
- **Elements** > <https://itunes.apple.com/gb/app/the-elements-by-theodore-gray/id364147847?mt=8>
- **Elements in Action** > <https://itunes.apple.com/gb/app/elements-in-action-by-theodore/id739281034?mt=8>