



**BROOKFIELD COMMUNITY SCHOOL**

COMMITTED TO EXCELLENCE

# Route to Exams

# Science



SEPT 2012



SEPT 2019



SEPT 2022



10<sup>th</sup> May 2024



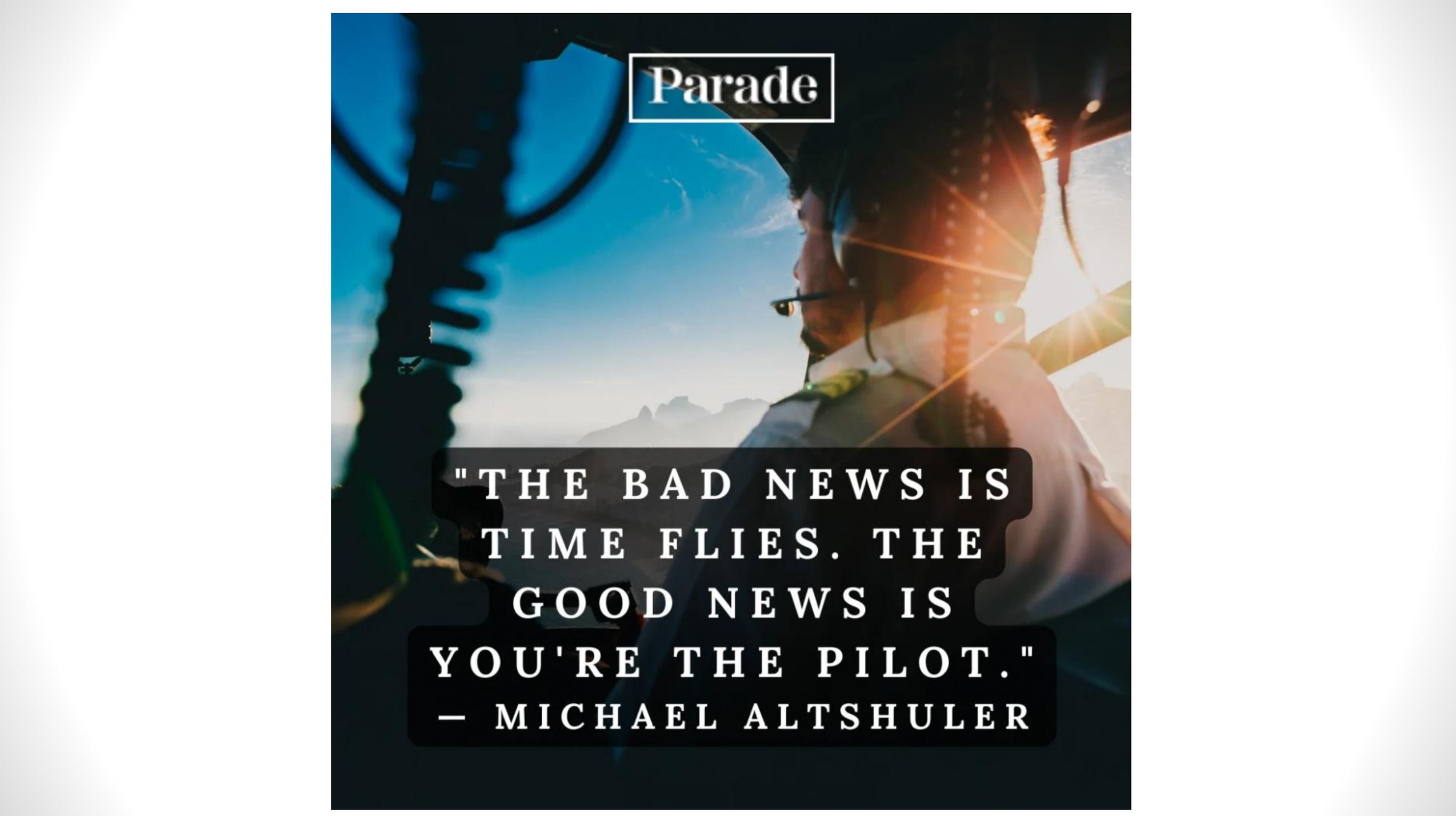
20<sup>th</sup> March 2024

**51 Days to first exam**  
**25 School days**



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A photograph of a pilot in a cockpit, looking out a window at a sunset over mountains. The pilot is wearing a headset and a light-colored shirt. The sun is low on the horizon, creating a bright glow and lens flare effects. The cockpit's yoke is visible in the foreground on the left.

Parade

"THE BAD NEWS IS  
TIME FLIES. THE  
GOOD NEWS IS  
YOU'RE THE PILOT."  
— MICHAEL ALTSHULER

# Exams

6 Exams:

- B1 – Friday 10<sup>th</sup> May (am)
- C1 – Friday 17<sup>th</sup> May (am)
- P1 – Wednesday 22<sup>nd</sup> May (am)
- B2 – Friday 7<sup>th</sup> June (pm)
- C2 – Tuesday 11<sup>th</sup> June (am)
- P2 – Friday 14<sup>th</sup> June (pm)

An advantage- less content to prepare for each

Know what is in them

Required practicals

Revision timetable



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# Biology

## B1

Biology topics 1–4:

- Cell Biology
- Organisation
- Infection and response
- Bioenergetics

## B2

Biology topics 5–7:

- Homeostasis and response
- Inheritance, variation and evolution
- Ecology



# Chemistry

## C1

Chemistry topics 8–12:

- Atomic structure and the periodic table
- Bonding, structure, and the properties of matter
- Quantitative chemistry
- Chemical changes
- Energy changes

## C2

Chemistry topics 13–17:

- The rate and extent of chemical change
- Organic chemistry
- Chemical analysis
- Chemistry of the atmosphere
- Using resources.



# Physics

## P1

Physics topics 18–21:

- Energy
- Electricity
- Particle model of matter
- Atomic structure

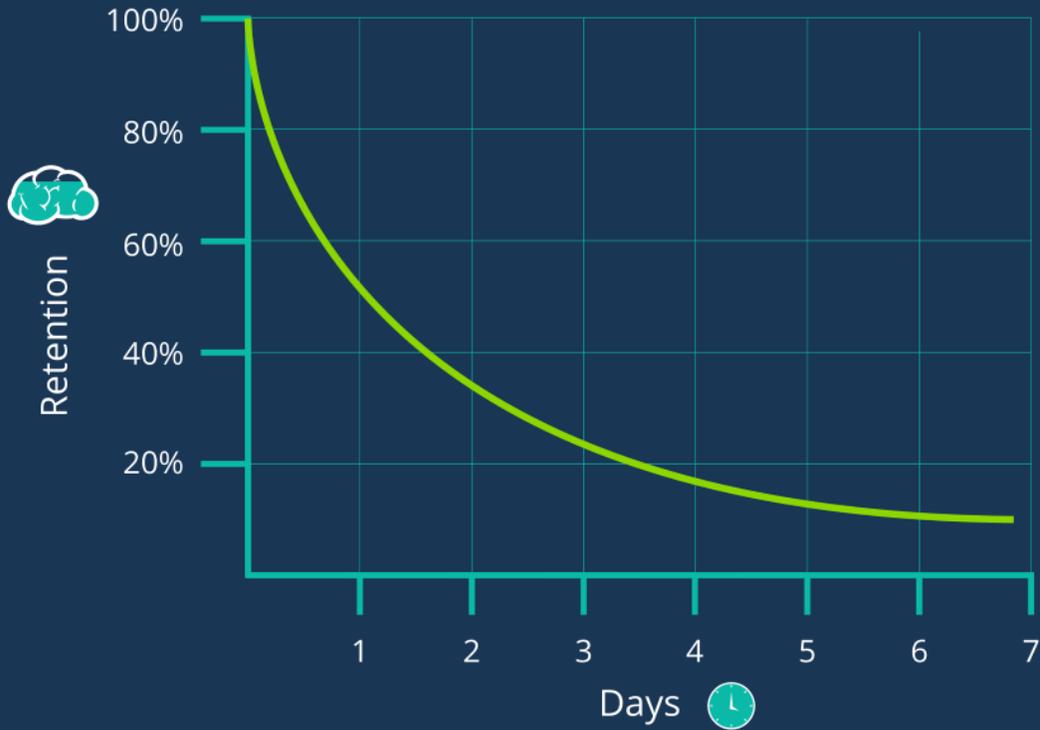
## P2

Physics topics 22–24:

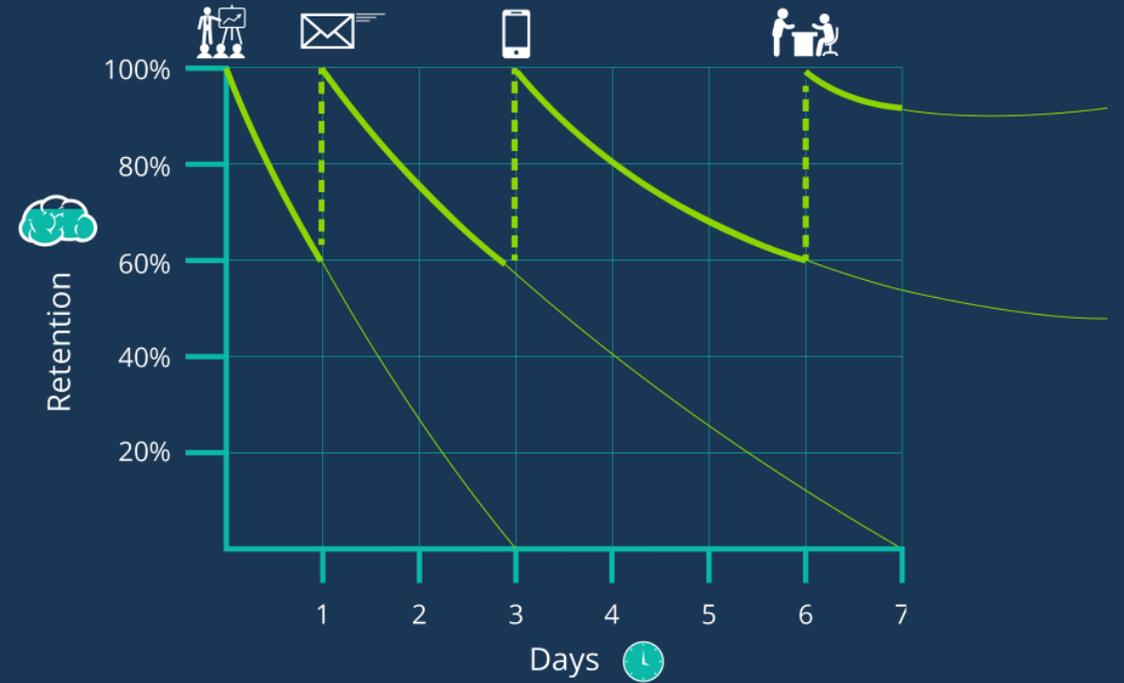
- Forces
- Waves
- Magnetism and electromagnetism
- **Space physics (triple only)**



# THE FORGETTING CURVE



# COMBATING THE FORGETTING CURVE



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# Revision Materials

- Retrieval booklets
- Revision packs
- Past paper questions
- Revision guides
- Useful websites



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# Websites to use - Educake

Revision wizard >

Your Upcoming Quizzes

[View all your quizzes](#)

Subject	Quiz name	Assigned by	Due
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Woohoo! You're all caught up! If your teacher sets you a quiz, you'll see it here.

Study and Quiz Yourself

KS3

GCSE

GCSE Science – AQA

0%



Biology

0%



Chemistry

0%



Physics

0%



Maths for Science

0%



Working Scientifically

0%



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# Websites to use - Kerboodle

## AQA GCSE Sciences (9-1)

-  Course
-  Lessons
-  Resources
-  Assessment
-  Markbook
-  Reports
-  User Management



AQA GCSE Foundation:  
Combined Science Trilogy and...

TEACHER ✓  
STUDENT ✓



AQA GCSE Biology for Combined  
Sciences: Trilogy

TEACHER ✓  
STUDENT ✓



AQA GCSE Biology Student Book

TEACHER ✓  
STUDENT ✓

● ○ ○ | [See all](#)



Assignments



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Your courses [Add courses](#)

Filters  Clear

Price

Free

Premium

Age Group

Subject

## How do you want to study?



Revise content

Exam prep

Can't find the course you're looking for? [Request a course](#) or [change your region](#)

# Websites to use - Cognito

**B** Biology   
Change subject

Lessons

Quiz **Pro**

Flashcards **Pro**

Past Exam Papers

Exam Qs by topic

Contents

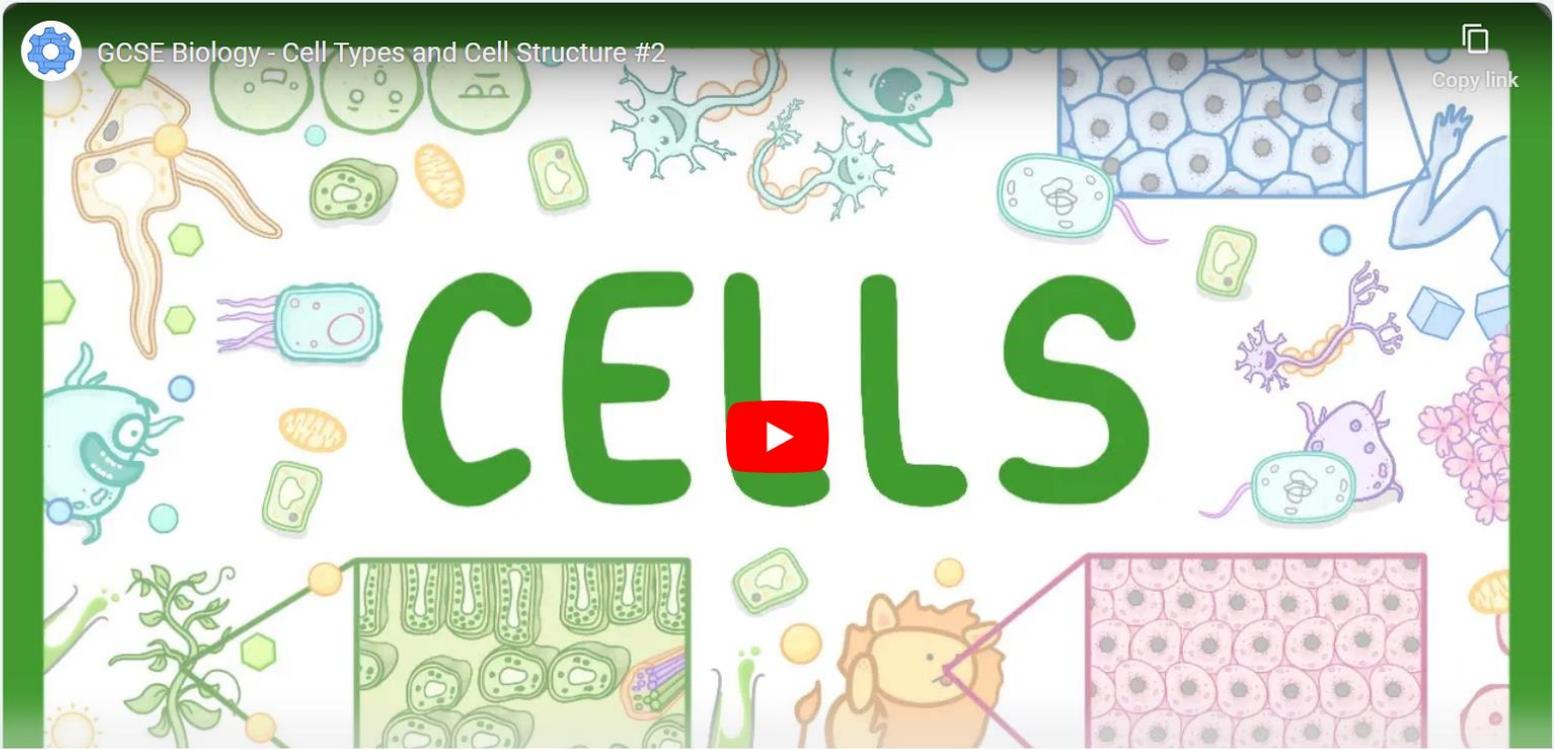
- 1 - Cell Biology
  - 1.1 - Cell Structure
  - 1.2 - Microscopy - What it is
  - 1.3 - Microscopy - Light vs ...
  - 1.4 - Microscopy - Units of ...
  - 1.5 - Microscopy - Calculati...
  - 1.6 - Mitosis

## Cell Structure

This lesson covers:

- 1 The structure of animal, plant, and bacterial cells
- 2 The function of each sub-cellular structure (organelle), such as ribosomes and mitochondria

GCSE Biology - Cell Types and Cell Structure #2 



# Revision Process



# GCSE revision tips and techniques for science students

[www.passgcscience.com](http://www.passgcscience.com)

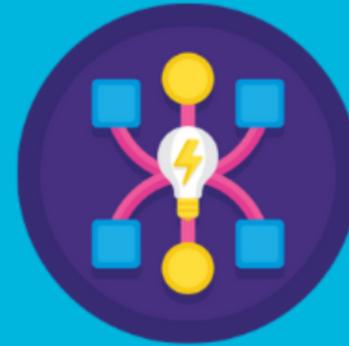


## 1 USE FLASHCARDS

Write down the key points from a topic on a flashcard. You should put the topics you find easiest at the back of the cards and the harder ones at the front. This means you can focus more on the more challenging topics and less on the ones you already know.

## 2 USE MIND MAPS

Create mind maps on flashcards or plain A4 paper. Then revise from them periodically. Creating mind maps on a unit or topic helps you link concepts with one another and you can easily see which topics you need to spend more time on.



## 3 REVISE ACTIVELY

Use the 'read-cover-recite-check' method. All you need is a piece of paper and pen for this, but you can also use flashcards and mind maps.



**4**

## SPACE OUT YOUR LEARNING

Start revising as early as you can and then go over topics at increasing intervals. E.g. 2 days, 5 days, 10 days etc until you can recall everything. This method drives information into your long-term memory. It ranks amongst the highest for effective learning techniques.

**5**

## CHUNK YOUR LEARNING

Break up the large syllabus into smaller topics and then into individual concepts that are easier to digest. You can also use mnemonics to remember concepts. Common examples include ROYGBIV or OIL RIG.

**6**

## WRITE YOUR OWN QUESTIONS

This is a way to actively engage in your learning. At school, or when you are reading your textbook, create at least one question that relates to your learning outcome. Then in your next revision session, try to answer the question.

**7**

## PRACTISE PAST PAPERS

Practising exam papers ranks highest amongst effective learning techniques. They help you develop your subject knowledge and identify gaps in your knowledge. You'll also be able to spot recurring topics and use the mark scheme to learn how to best answer questions to get full marks.

8

## TEACH SOMEONE ELSE

Teaching forces you to actively understand and recall what has been learnt. So how do you get an opportunity to teach? Well, you can get a study partner or take advantage of homework or classwork where the task involves presenting a topic.



9

## MAKE MENTAL ASSOCIATIONS

This is a technique used by top learning and memory experts. If you want to learn the EM spectrum for example, try associating each wave with a vivid image. Then link all the images together to form a story.



10

## CREATE ANALOGIES

An analogy is when you compare one thing to another similar thing. E.g. you can liken a plant cell wall to a school wall because they both provide support. An analogy is a good way to show you understand what you have learnt.

# Revision ⌚ POWER HOUR



STEP  
01

Choose a past paper question

Google your subject, level and exam board e.g. "Geography A-Level Past Papers AQA"

STEP  
02



Revise

Spend 20 minutes revising what you need to know to answer your chosen question

STEP  
03



Do the question

Set a timer for 20 minutes and answer the past paper question you chose

STEP  
04



Get feedback

Show your teacher your work. Ask them whether your marking is accurate and how you could improve your answers

STEP  
05

Mark your answer

Using the mark scheme for the past paper mark your answer. This will help you to think like an examiner



# What next?

- Bring calculators and all equipment to every exam and every lesson
- Revision packs will be given out to practise on over Easter
- Lots of content in Science, the key is to break it down
- What is in each exam?
- What do I not get? Make a list



# Summary- What should I be doing?

- Checking you know the content for each exam
- Making revision resources
- Answering past paper questions (use mark schemes too)
- Attending co-curricular and Easter sessions

