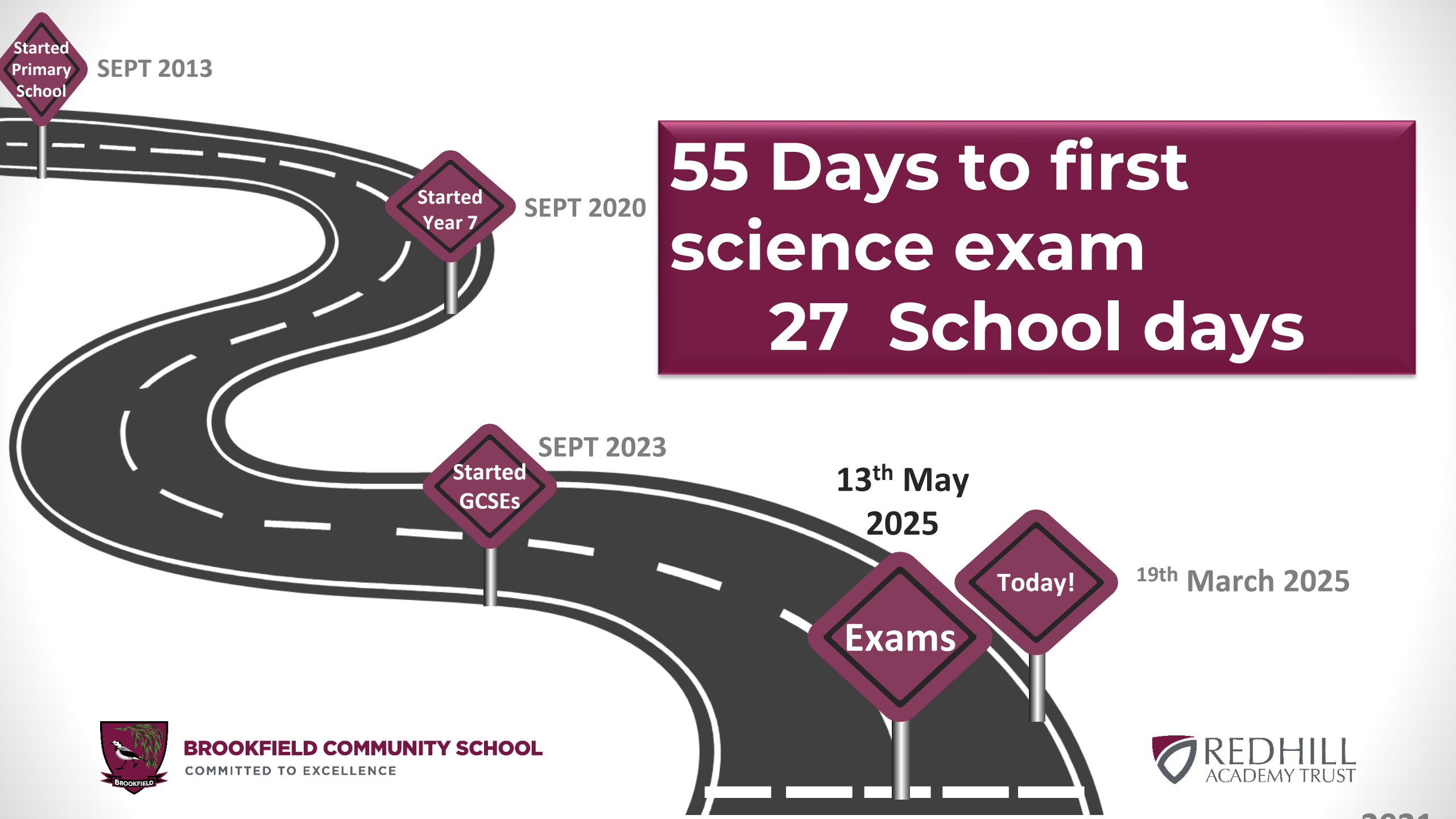
BROOKFIELD COMMUNITY SCHOOL

COMMITTED TO EXCELLENCE

Route to Exams

Science

REDHILL ACADEMY TRUST



55 Days to first science exam
27 School days

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

Exams

6 Exams:

- B1 – Tuesday 13th May (pm)
- C1 – Monday 19th May (am)
- P1 – Thursday 22nd May (am)
- B2 – Monday 9th June (am)
- C2 – Friday 13th June (am)
- P2 – Monday 16th June (am)

An advantage- less content to prepare for each

Know what is in them

Required practicals

Revision timetable

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

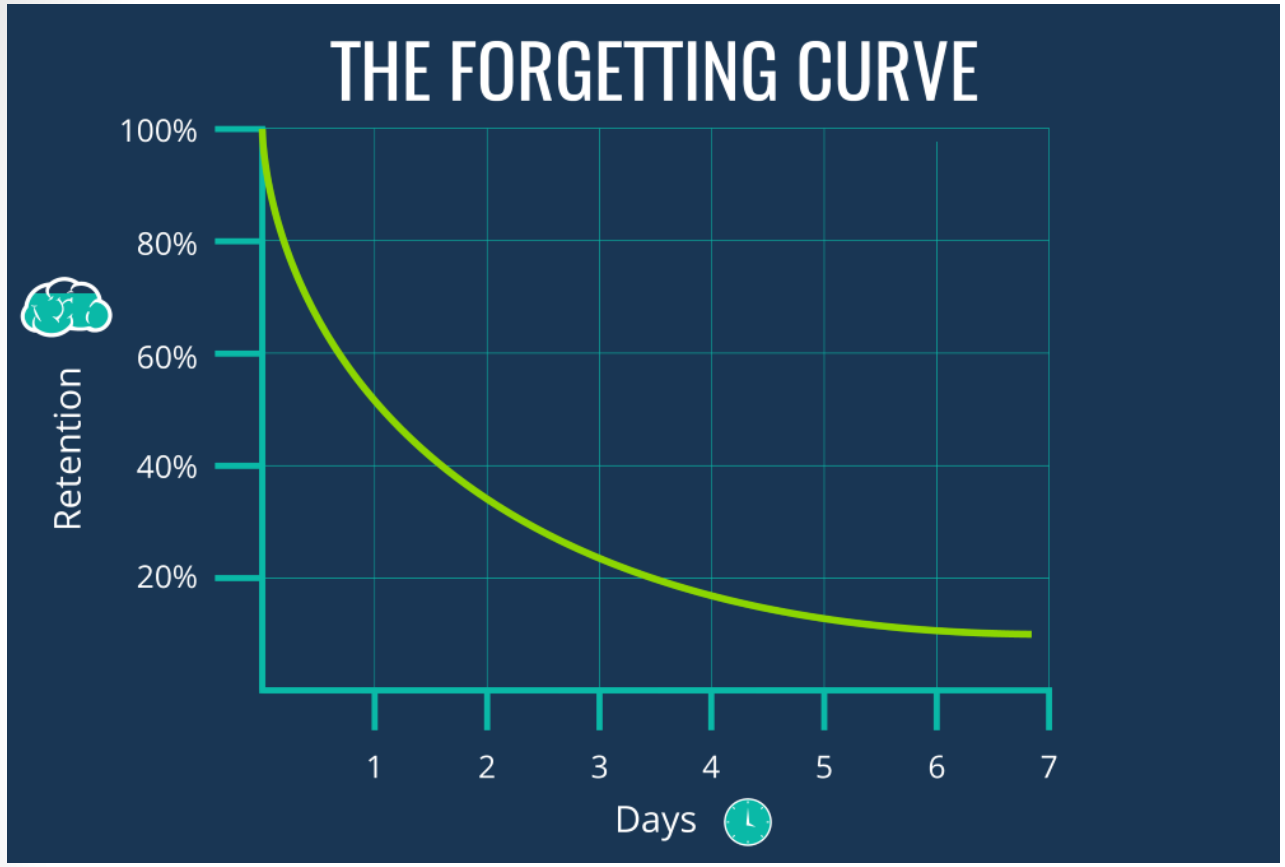
Physics topics 18–21:

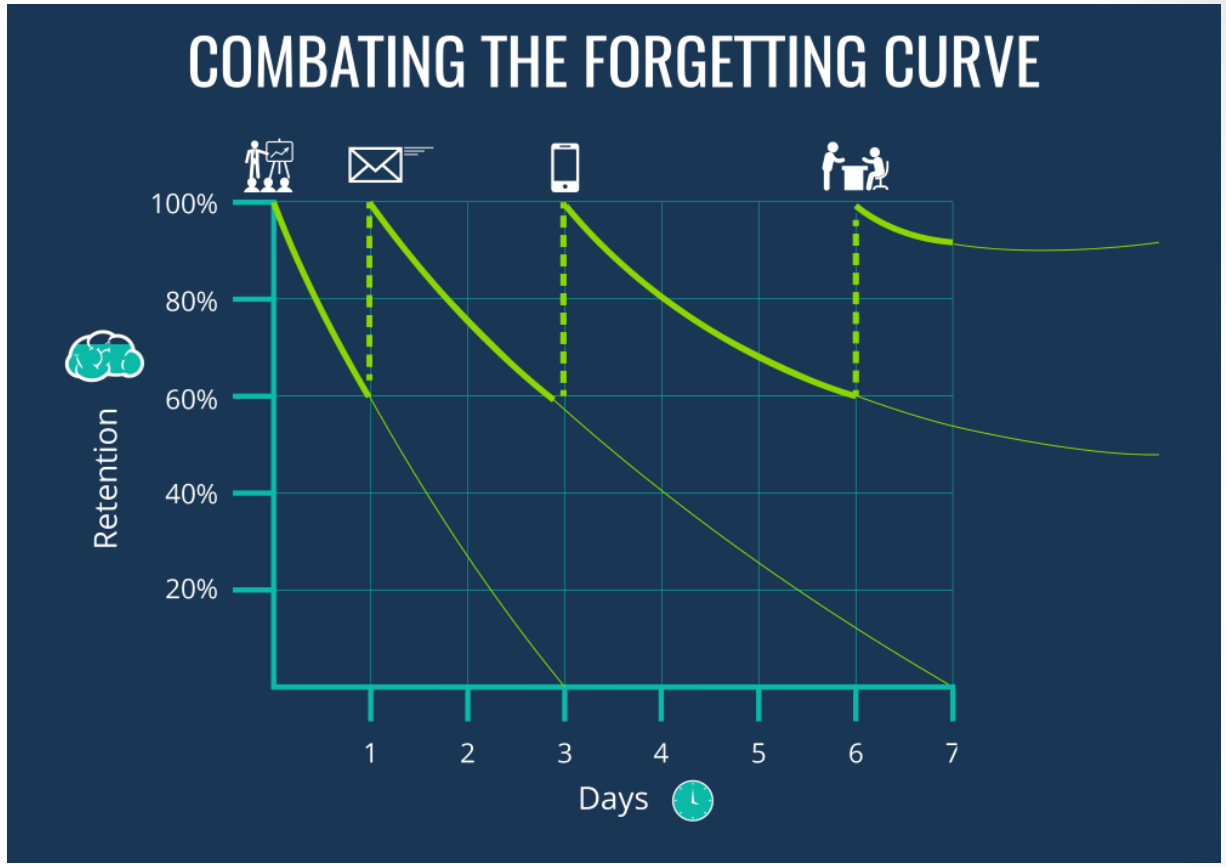
- Energy
- Electricity
- Particle model of matter
- Atomic structure

P2

Physics topics 22–24:

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





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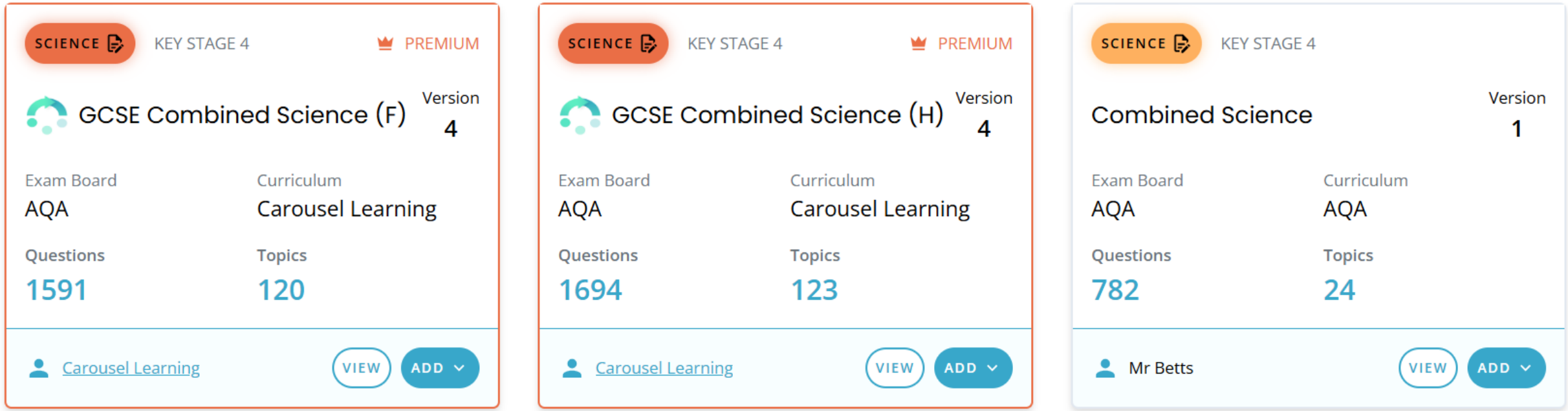
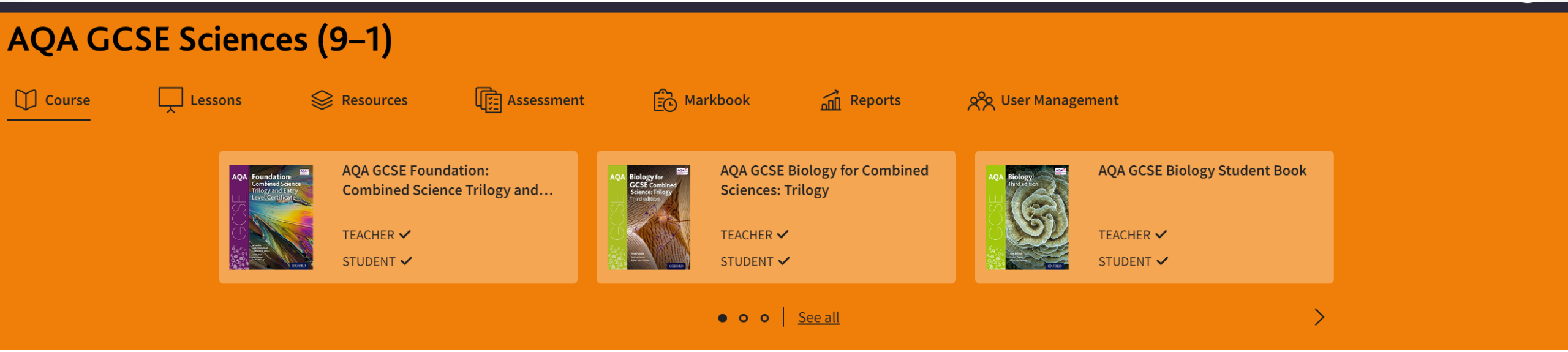
Revision Materials

- Retrieval homework
- Past paper questions
- Revision guides and flash cards
- Useful websites

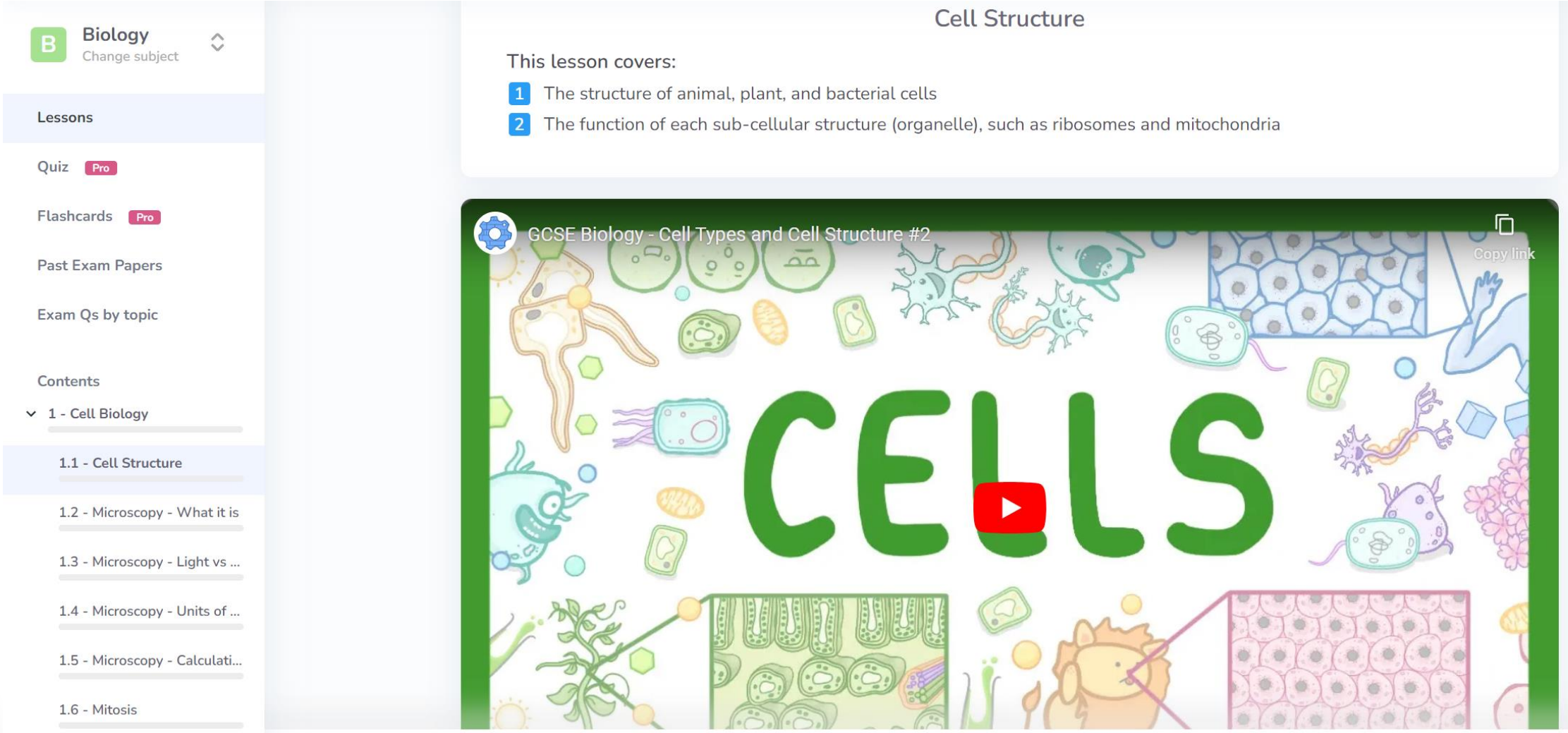
Websites to use - Carousel



Websites to use - Kerboodle



Websites to use - Cognito



Revision

Revision notes, key points, worksheets and questions by topic from past papers

Maths | Physics

Biology | Chemistry

Economics | Geography

English | Psychology

Computer Science

Past Papers

Past GCSE/IGCSE and A-level papers

Notes

- Definitions
- Detailed Notes

Flashcards

- Cell Structure
- Cell Division
- Transport in Cells

Mind Maps

- 1.1 Cell Structure
- 1.2 Cell Division
- 1.3 Cell Transport

PMT Shop

- Printed AQA Biology Resources

Questions by Topic

2018-2021 papers

- 1.1 Cell Structure MS
- 1.1 Cell Structure QP
- 1.2 Cell Division MS
- 1.2 Cell Division QP
- 1.3 Transport in Cells MS
- 1.3 Transport in Cells QP

pre-2018 papers

Questions selected for the current specification

- 1.1 Cell Structure 1 MS
- 1.1 Cell Structure 1 QP
- 1.1 Cell Structure 2 MS
- 1.1 Cell Structure 2 QP
- 1.1 Cell Structure 3 MS
- 1.1 Cell Structure 3 QP
- 1.2 Cell Division 1 MS
- 1.2 Cell Division 1 QP
- 1.2 Cell Division 2 MS

Revision Process

GCSE revision tips and techniques for science students

www.passgcsescience.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

Mark your answer

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

STEP 05

Get feedback

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

What next?

- Bring calculators and all equipment to every exam and every lesson
- Revision checklists 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