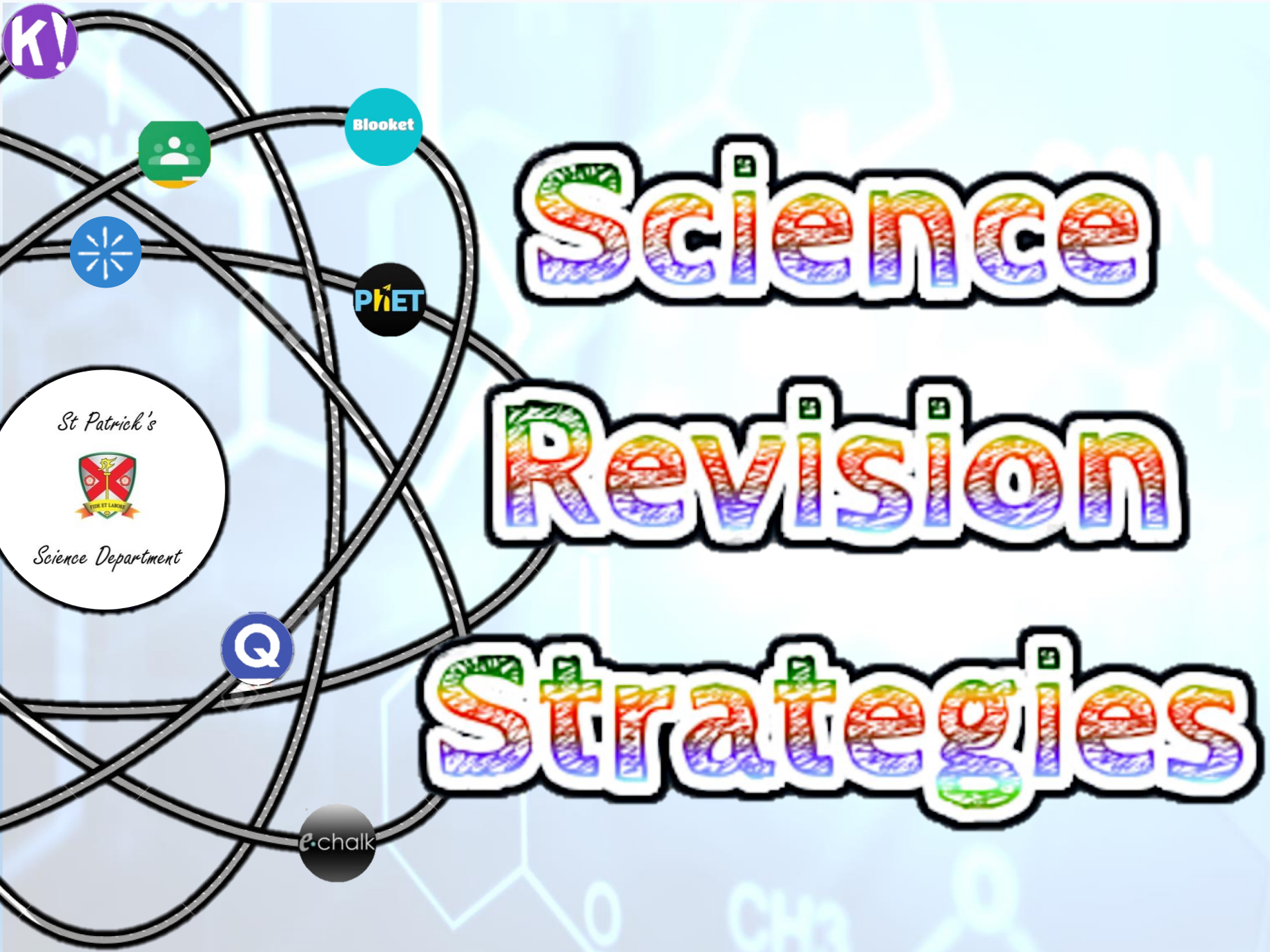
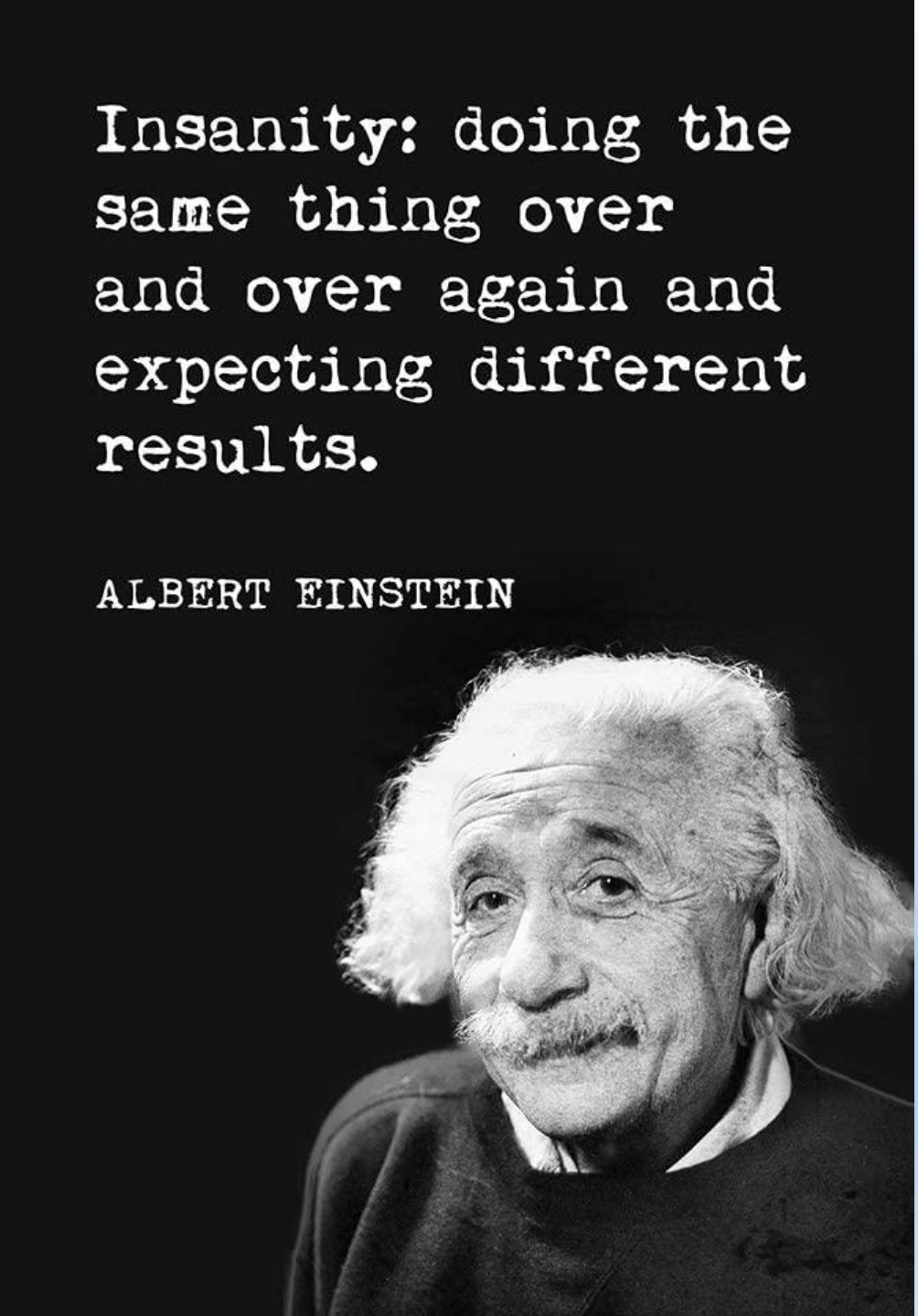


Science Revision Strategies



- Vary your revision to increase your understanding.

How much do we remember?

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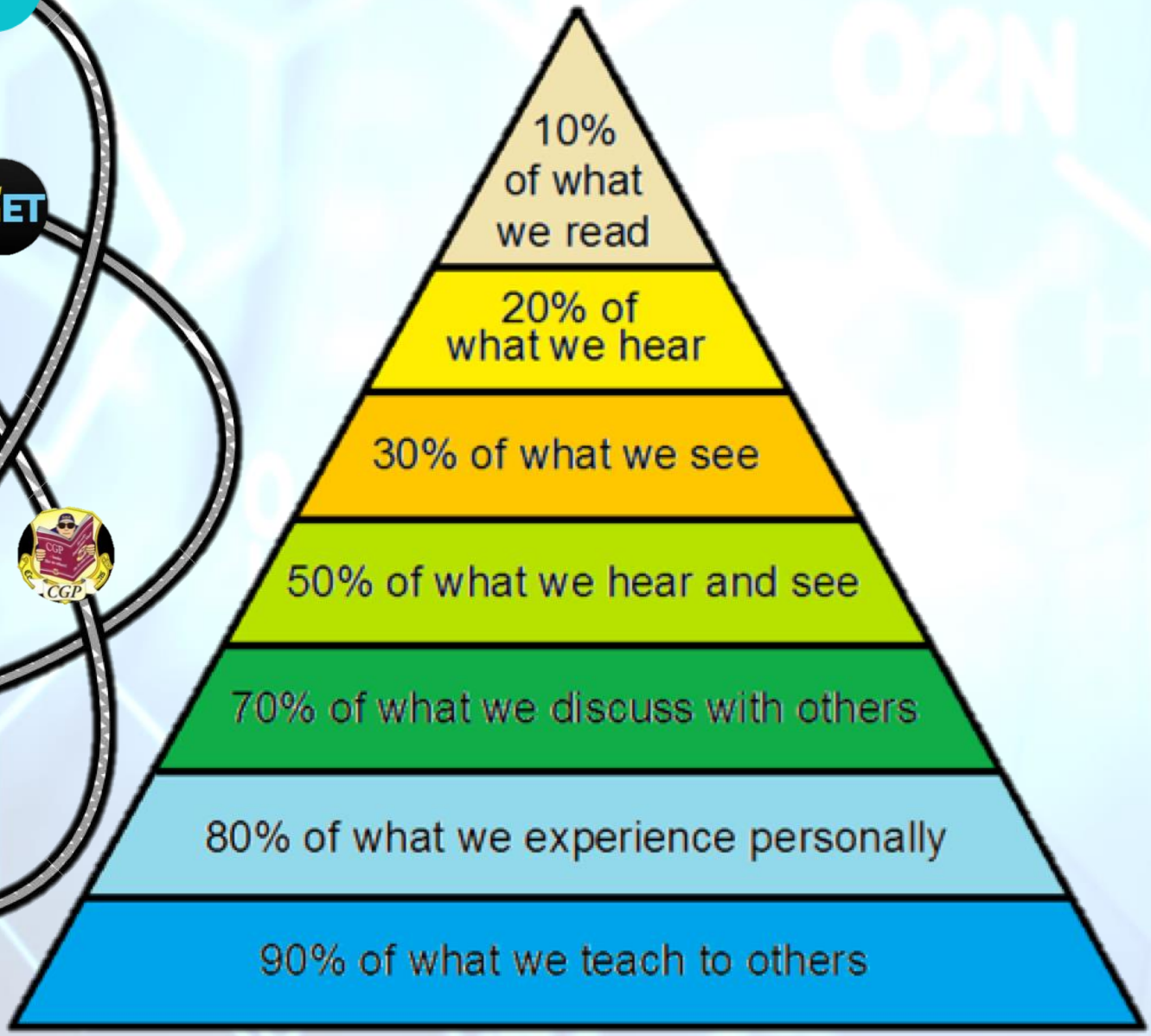
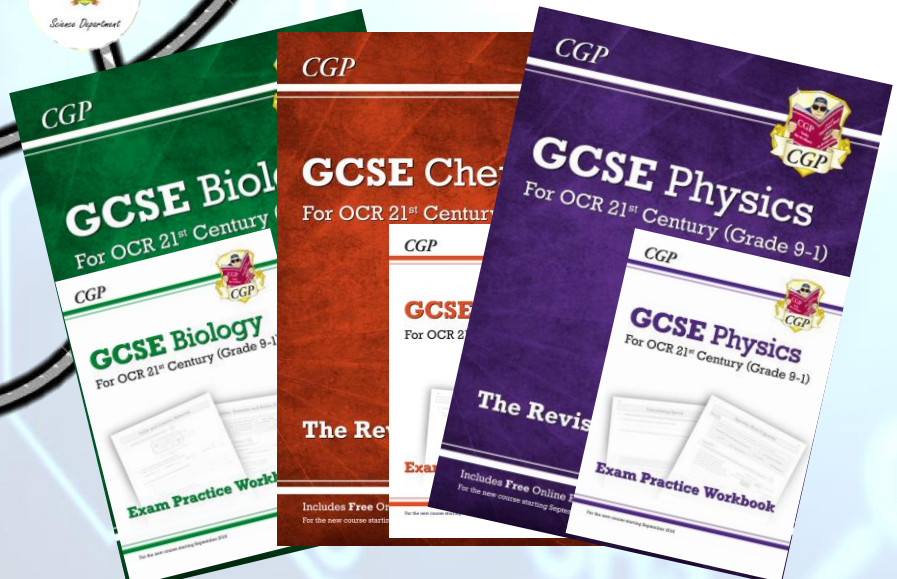
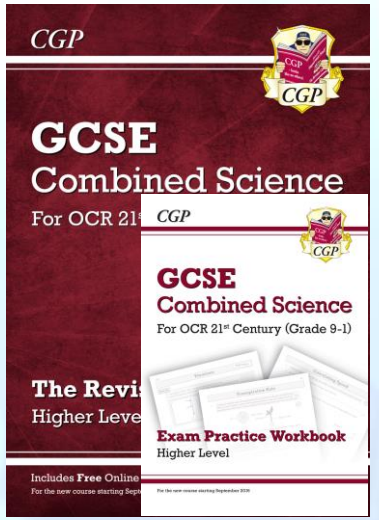


Science Revision Guides and Work Books

- **Completing the Science workbook is revision.**
- Completing the Science workbook is completing 'past papers'.
- Use the revision guide to help you complete the questions.





Science Revision Guides and Work Books

- Follow the schedule.. Spares available!

Year 11 Science Workbook Schedule 2021-2022

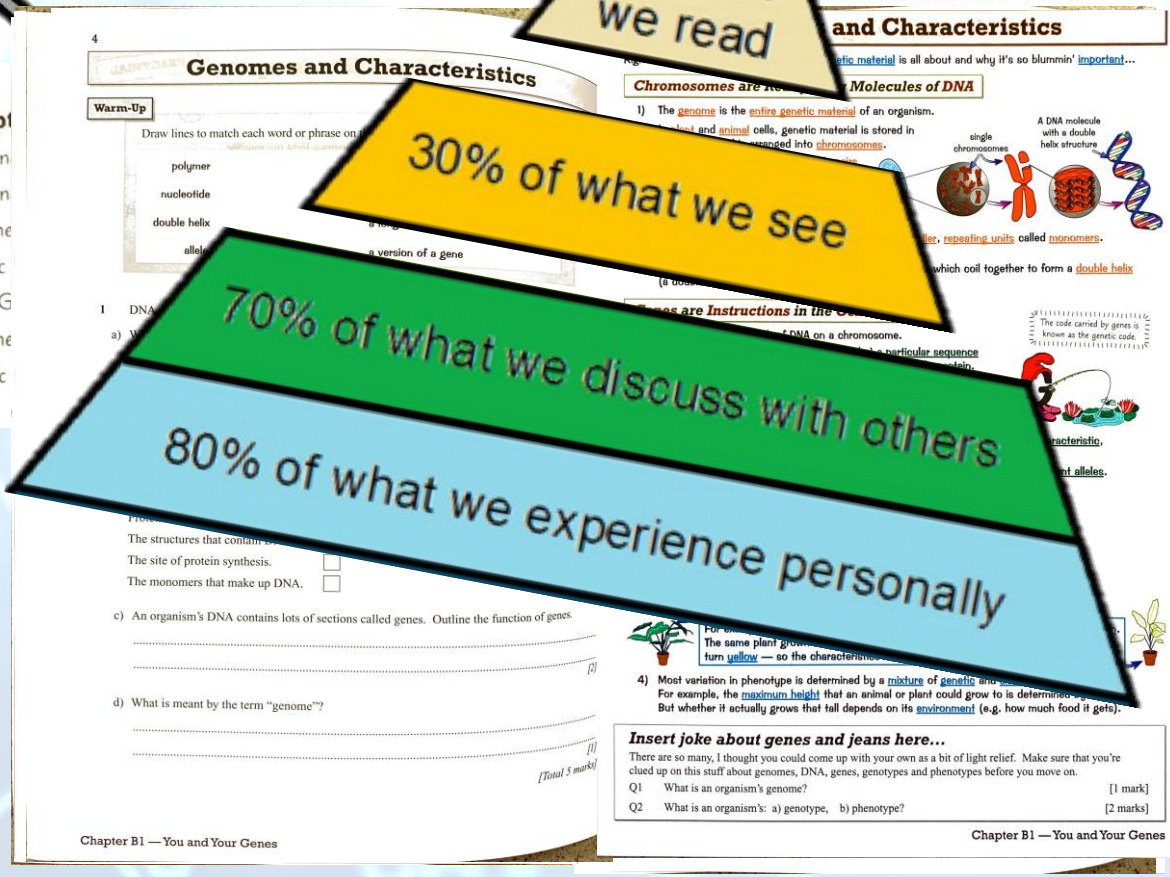
Topic (*number of pages)	Due	No. weeks
B1 - You and your genes (9)	Wednesday 15th September	2 weeks
C1 - Air and water (15)	Wednesday 29th September	2 weeks
P1 - Radiation and waves (13)	Wednesday 6th October	1 week
B2 - Keeping healthy (17)	Wednesday 20th October	2 weeks
October half-term – 1 week off		
C2 - Chemical patterns (12)	Wednesday 3rd November	2 weeks (inc hols)
P2 - Sustainable energy (7)	Wednesday 10th November	1 week
B3 - Living together – Food and ecosystems (28)	Wednesday 1st December	3 weeks
C3 - Chemicals of the natural environment (17)	Wednesday 15th December	2 weeks
Christmas holidays – 2 weeks off		
P3 - Electric circuits (15)	Wednesday 12th January	4 weeks (inc hols)
B4 - Using food and controlling growth (10)	Wednesday 19th January	1 week
C4 - Material choices (9)	Wednesday 26th January	1 week
P4 - Explaining motion (21)	Wednesday 9th February	2 weeks
B5 - The human body – Staying alive (15)	Wednesday 16th February	1 week
February half-term – 1 week off		
C5 - Chemical analysis (17)	Wednesday 2nd March	2 weeks (inc hols)
P5 - Radioactive materials (7)	Wednesday 9th March	1 week
B6 - Life on Earth – Past, present and future (8)	Wednesday 16th March	1 week
C6 - Making useful chemicals (12)	Wednesday 23rd March	1 week
P6 - Matter – models and explanations (8)	Wednesday 30th March	1 week
Biology mixed questions (5)	Wednesday 6th April	1 week
Easter holidays – 2 weeks off		
Chemistry mixed questions (6)	Wednesday 27th April	3 weeks (inc hols)
Physics mixed questions (6)		

Science Revision Guides and Work Books

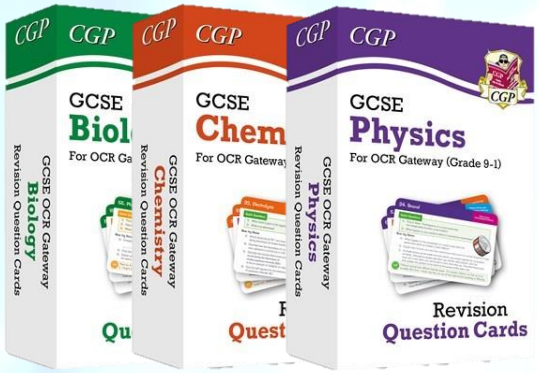
- Use the revision guide to help you complete the questions (the sections match up).

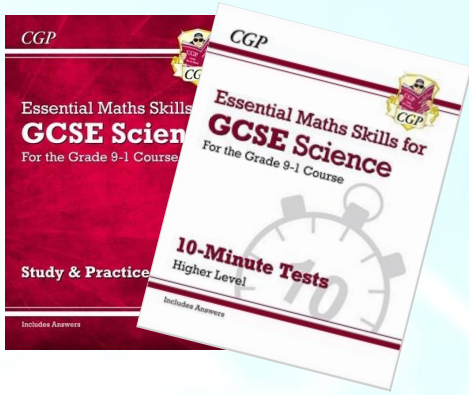
Workbook

Revision Guide



Optional, but highly recommended





Other science resources are also available for you to purchase include:

- Science revision question cards.
- Essential maths skills for GCSE Science revision guide.
- Essential maths skills for GCSE Science work book.

A letter has been sent home if you would like to purchase any of these.

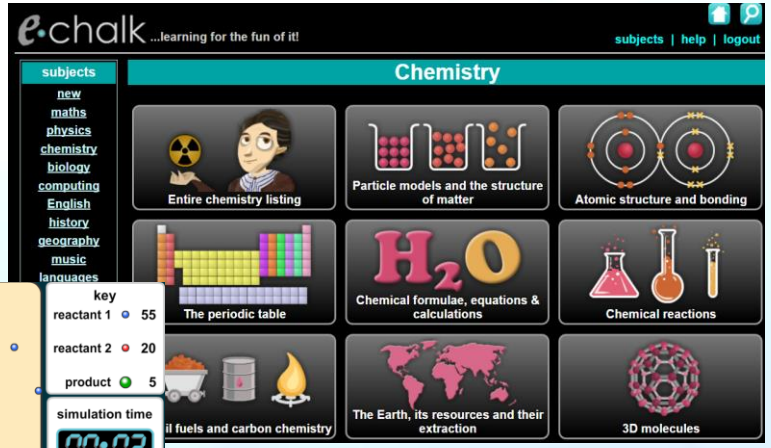
Combined revision cards: £10.50 (full set)
Triple revision cards: £4.50 per set
Maths in science revision guide: £3.00
Maths in science workbook: £2.00

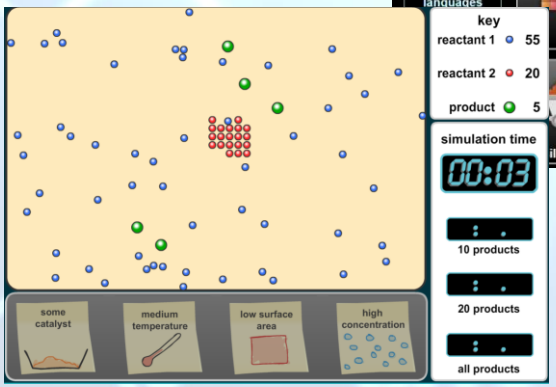
eChalk

eChalk is full of Science simulations to help you understand challenging concepts and bring them to life.

You can use eChalk at school, at home, on your tablet and on your mobile.

Username: stpatricksrc
Password: cleverFriar





petrol engine

35000 J chemical

8750 J kinetic

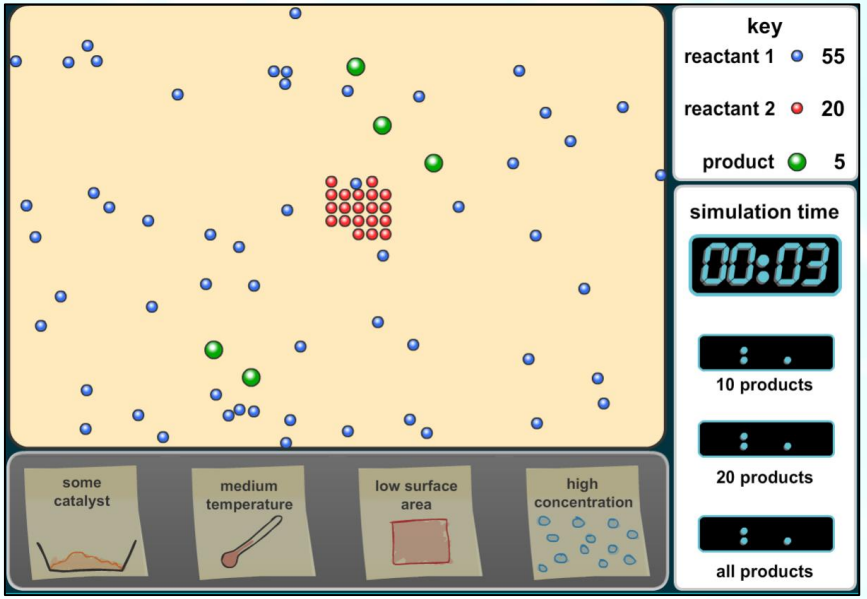
26250 J heat

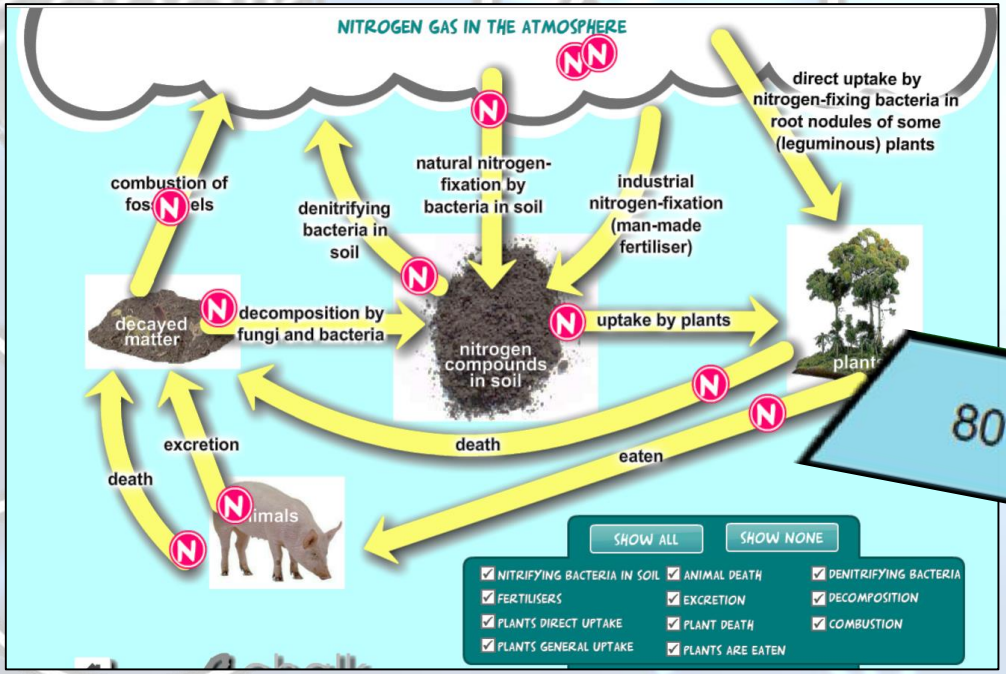
☑ *show efficiency calculation*

$$\text{efficiency (\%)} = \frac{\text{useful energy output}}{\text{total energy input}} \times 100 = \frac{8750}{35000} \times 100 = 25\ \%$$

Different designs of petrol engine have different efficiencies. The values above are typical of engines in use at the turn of the millennium.

eChalk





30% of what we see

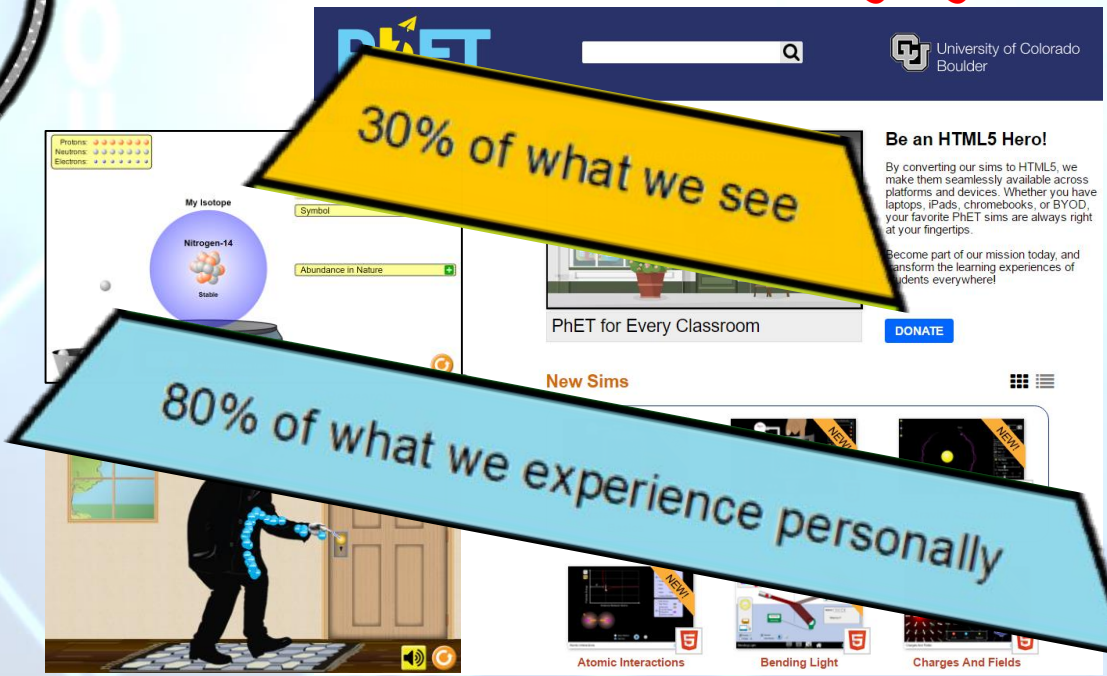
80% of what we experience personally

PhET Simulations

PhET simulations is full of Science simulations to help you understand challenging concepts and bring them to life.

You can use PhET simulations at school, at home, on your tablet and on your mobile. No username or password required.

Search "PhET simulations" in google.



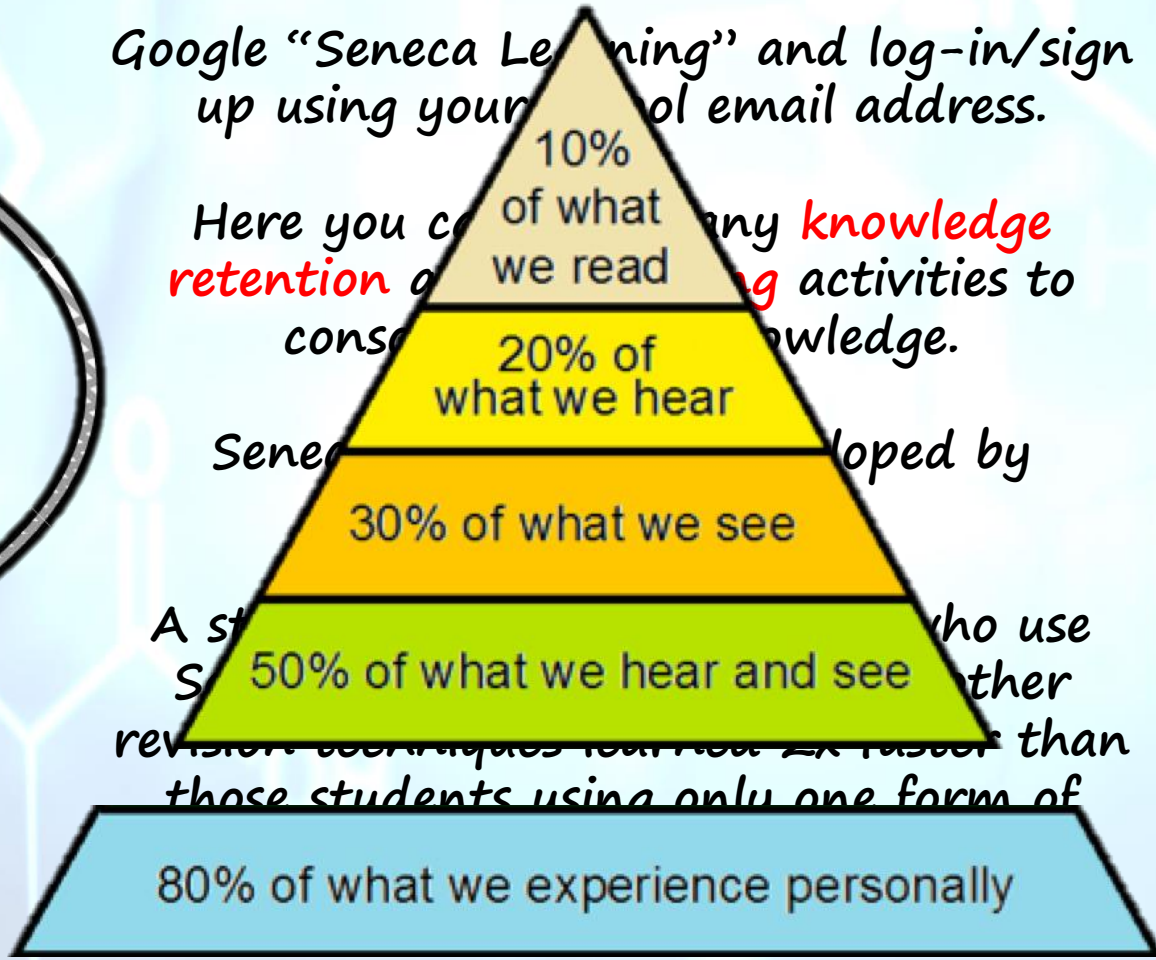
Seneca Learning

Google "Seneca Le ning" and log-in/sign up using your ol email address.

Here you c ny knowledge retention g activities to cons wledge.

Sene loped by

A st ho use S ther revision techniques learned. Ex faster than those students using only one form of

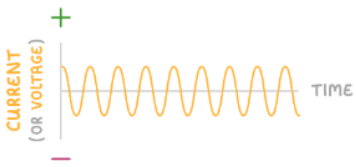


Seneca Learning

COGNITO

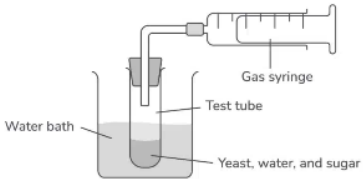
Over 400 video lessons that teach you everything you need to know

Flashcards help you memorise content as quickly as possible



Which type of current does the above oscilloscope trace represent?

c) A scientist is investigating respiration in a species of yeast, using the following apparatus.



i) Suggest one variable the scientist should aim to control during their experiment.

A mass of sugar

B temperature

C volume of water

Submit

(0/1 marks)

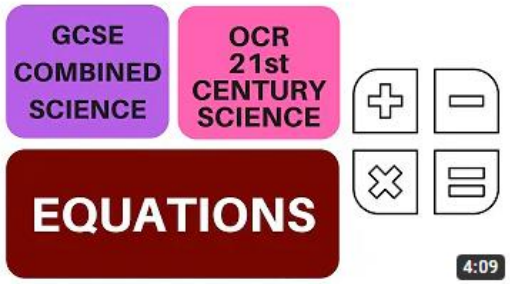
Thousands of interactive exam questions organised by topic and provided with built-in mark schemes

Search COGNITO on YouTube ***OR*** ***https://cognitoedu.org/home***

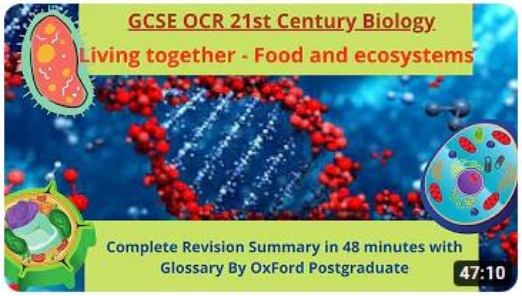
YouTube

Know your exam board
OCR 21st Century Science
Combined / Triple

MAKE NOTES AND FLASHCARDS WHILST WATCHING



GCSE Science Equations (OCR 21st Century Combined Science)
120 views • 5 years ago
Science Revision
These are the equations you need to memorise for your exam! We post daily social media updates to help with your revision: ...



GCSE OCR 21st Century Living together Food and ecosystems Complete Revision Summary in just 48 min
208 views • 2 years ago
Expert Guidance by Mahima Laroyia
Living together Food and ecosystems ;- Photosynthesis Factors affecting photosynthesis How plants use glucose Greenhouses ...
Photosynthesis | Endothermic | Factors That Affects the Rate of Photosynthesis | How Does Light... 50 moments

Search COGNITO on YouTube ***OR*** ***https://cognitoedu.org/home***

BBC BITESIZE

Know your exam board
OCR 21st Century Science
Combined / Triple

Topics

Podcasts >

Exam practice >

Biology (Combined Science) >

- You and your genes
- Keeping healthy
- Living together - Food and ecosystems
- Using food and controlling growth
- The human body - Staying alive
- Life on Earth - Past, present and future
- Ideas about science
- Practical skills

Chemistry (Combined Science) >

- Air and water
- Chemical patterns
- Chemicals of the natural environment
- Material choices

What happens during cellular respiration? - OCR 21st Century >

- Revise
- Audio
- Test

How do we know about mitochondria and other cell structures? >

- Revise
- Test

How do organisms grow and develop? - OCR 21st Century >

- Revise
- Video
- Test

Links

Combined Science Exam practice
Prepare for GCSE examinations

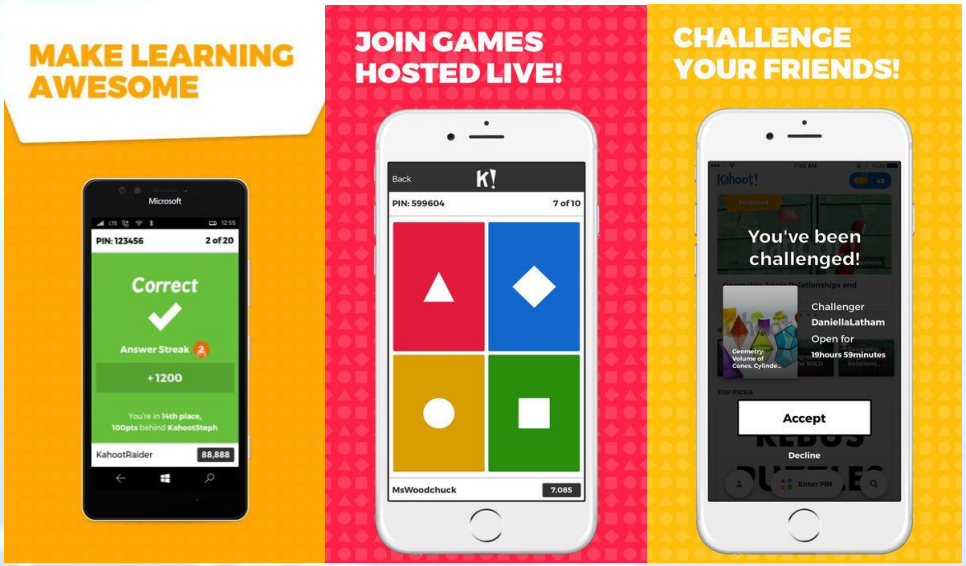
Search BBC Bitesize GCSE

Kahoot

Download the KAHOOT app or go to the website.

Thousands of free quizzes ready to play.

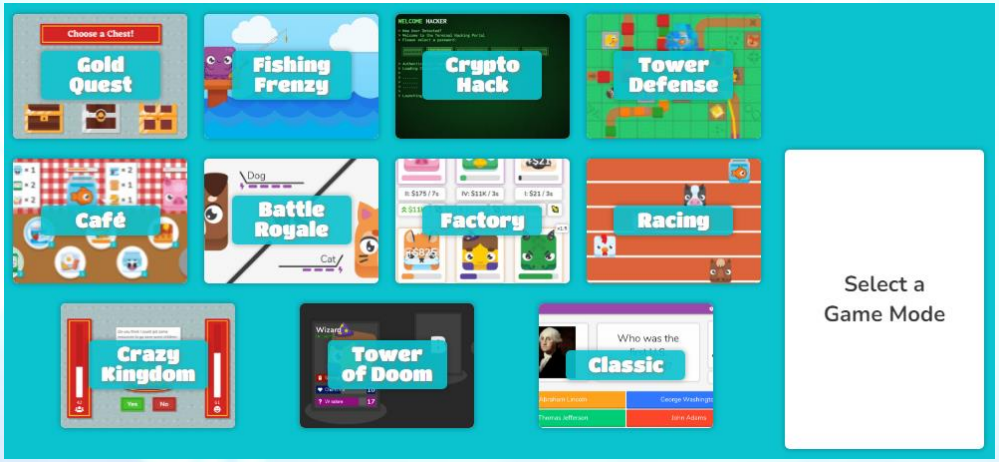
Test your understanding.

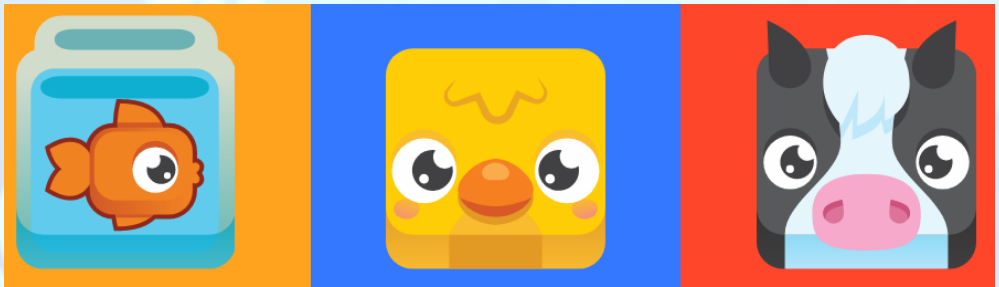


Blooket

Go to www.blooket.com for more free quizzes ready to play.

Choose your favourite Blook and play test your understanding by playing one of their many review games in a group.



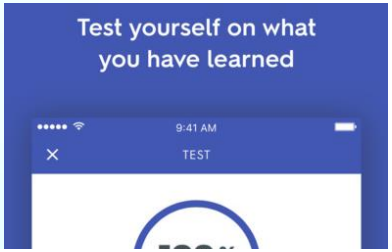


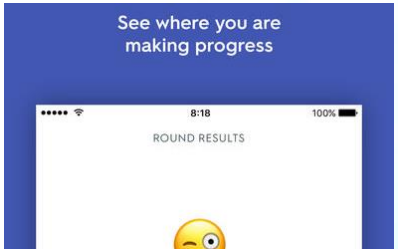
Quizlet

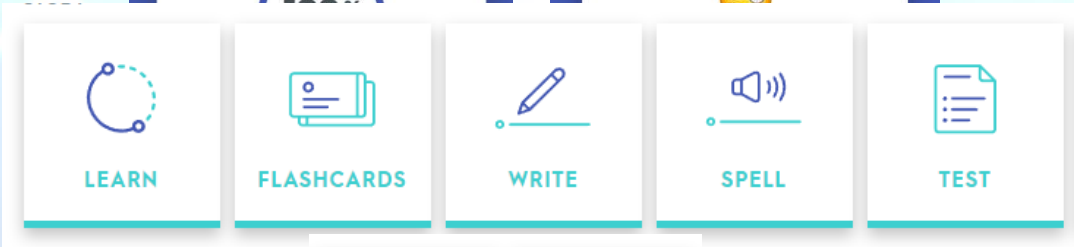
Download the QUIZLET app or go to the website.

Thousands of free flashcard sets ready to use.

You can also make your own flashcards.
Test your understanding.







Get Organised!

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Notes:

- Prioritise weaker subjects.
- Leave space where possible to include extra info e.g. Chemistry – C4, even if logged rather than planned.

How to make the most of revision

- Be realistic.
- Be determined, both with revision and breaks.
- Use your time effectively; no 3 hour blocks without breaks!
- Revise in chunks; 30 mins max then a short break. Repeat.
- Be kind to yourself during breaks (e.g. FIFA, walk the dog, bath).
- Be flexible.
- Use a multi angled approach; read, make mind maps, stick post-it notes around the house on cupboards etc., make revision cards, test your friends, discuss what you've learned, teach your friends and family, practise exam papers, watch revision videos on YouTube, and ask teachers for help if you are really not sure on something.
- Use a quiet space; no music, TV, phone or siblings (use school if it helps).

Planning your revision

- - How to create a revision timetable

First task…

- List all the subjects that you need to do revision for.
- Now rank them in order, with the first being the subject in which you need to do the most revision. Think about your target grades and current attainment to work this out. Discuss with teachers if you need to.
- See example on next slide.

An example:

Subjects to revise for:

- Maths
- English Literature
- English Language
- Biology
- Chemistry
- Physics
- Geography
- RE
- Music
- Business Studies

Rank order (most revision needed)

1st. Chemistry

2nd. Maths

3rd. Geography

4th. Business studies

5th. Biology

6th. Physics

7th. English Literature

8th. English Language

9th. Music

10th. RE

So this student needs to make sure that they spend more time revising subjects like chemistry, maths and geography.

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
8:00 - 9:00							
9:00 - 10:00							
10:00 - 11:00							
11:00 - 12:00							
12:00 - 1:00							
1:00 - 2:00							
2:00 - 3:00							
3:00 - 4:00							
4:00 - 5:00							
5:00 - 6:00							
6:00 - 7:00							
7:00 - 8:00							
8:00 - 9:00							
9:00 - 10:00							

An example timetable

1st. Chemistry
2nd. Maths
3rd. Geography
4th. Business studies
5th. Biology
6th. Physics
7th. English Literature
8th. English Language
9th. Music
10th. RE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	SUNDAY
8:00 - 9:00	SCHOOL DAY					FOOTBALL TRAINING	
9:00 - 10:00							HOMEWORK
10:00 - 11:00							
11:00 - 12:00							HOMEWORK
12:00 - 1:00							
1:00 - 2:00						Maths	HOMEWORK
2:00 - 3:00							
3:00 - 4:00	Science intervention	English intervention	Maths intervention		Geography / History	English Language	
4:00 - 5:00							
5:00 - 6:00	TEATIME	TEATIME	TEATIME	TEATIME	TEATIME		
6:00 - 7:00	RE	Maths	Biology	Option A	Option B	TV & CHILL	
7:00 - 8:00					OUT		
8:00 - 9:00	Physics	English		Chemistry			
9:00 - 10:00			English Literature				

Get Organised!

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- Use a quiet space; no music, TV, phone or siblings (use school if it helps).

Science Revision Strategies

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The harder you work, the more successful you will be.
Work hard, be successful.