English:

How to support revision at home.

English Literature:

Shakespeare and unseen poetry will still be compulsory.

The two papers will now be structured like this:

| Power |
|----------|
| and |
| conflict |

LotF /

AIC

| | Paper 1 – choose any 2 | Paper 2 - compulsory |
|--|--|--|
| Paper 1A Anthology of poetry – 1 item 30 marks (AO1, AO2, AO3) | | Section A Shakespeare – 1 item Macbeth 30 marks (AO1, AO2, AO3) + 4 marks (AO4) |
| Paper 1B 19th centur 30 marks | | Section B Part 1: unseen poem essay 24 marks (AO1, AO2) + 4 marks (AO4) Part 2: unseen poetry comparison 8 marks (AO2) |
| M | aper 1C odern prose/drama – 1 item marks (AO1, AO2, AO3) | |

There have been changes to the GCSE in light of COVID.

Knowledge



- Evidence/quotations
- Analysis of evidence → both language, structure and form
- Contextual knowledge
- Events in the text
- The writer's surname

Before you even begin an exam, you need to know the material that will be tested.

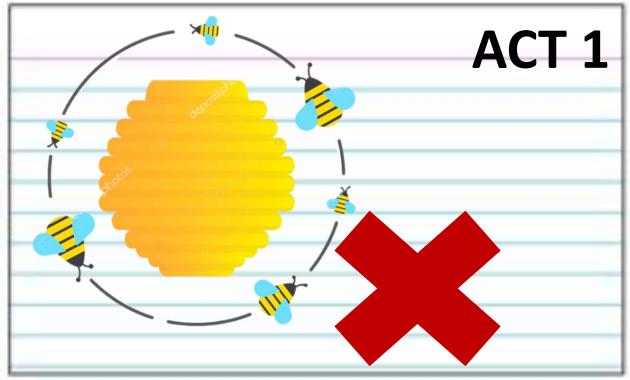
- This is the stuff you have absolute control of before walking into an exam hall.
- This is also the stuff that you may end up not using all of – it depends on given questions. That's the way it is.
- 20 minute chunks of knowledge

English Literature (knowledge revision):

| | Activity |
|-----------|---|
| | Write out key quotes five times over |
| | Cover/take quotation away and recall by writing out the quote again |
| dge | Record yourself saying your key quotes and play this back to yourself repeatedly |
| Knowledge | Produce revision flash cards with key quotes on one side and a pictorial representation |
| Kno | of the quote on the other. These can then be used by other people to test you, with |
| | the picture as a prompt |
| | Test yourself by doing a knowledge dump – either speak for 60 seconds, non-stop, |
| | about a character/theme OR write down everything you can think about a character/theme |



Blank out words in quotes Repeat quotes Hold flash cards up and hear the reverse



Birling: as if <u>we</u> were all mixed up together <u>like bees</u>
<u>in a hive – community and all that nonsense</u>

We + community → we initially positioned to show Birling family comes before everyone else

Separation of dash → B distances himself from others

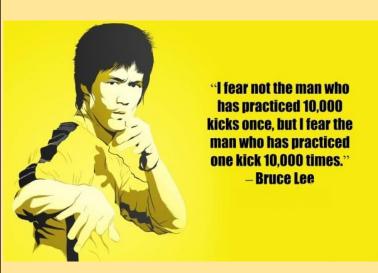
<u>Simile</u> → connotations of workers, production of the greater good with hives → one for all; all for one

All that nonsense → flippant and disparaging tone, shows socialist views are seen as illogical and insane to B

Front - YOU

Back - Tester

Application



- Answering a question
- Planning and selecting relevant knowledge
- Academic writing style
- Writing in timed conditions

For your Literature (and Language) you will be marked on your ability to <u>apply</u> your knowledge to a question.

It is responsive; however, by applying your knowledge lots of times to different situations, you will become more skilled at it.

English Literature (application revision):

- Planning essay responses
- Timed writing
- Draft introductions/overviews
- Prepare 'mini' analysis of key quotes / structural features > only three sentences

English Language:

| | English Language | | | | | | | |
|-----------|--|---|---|--------------|---|--|--|--|
| | !! PLEASE NOTE – THE BOARD SUGGEST YOU SPEND 15 MINS READING AND PLANNING AT THE START OF BOTH LANGUAGE EXAMS !! | | | | | | | |
| | | QUESTION | WHAT DO I HAVE TO DO? | WHICH AO? | MARKS AVAILABLE? | SUGGESTED TIMINGS | | |
| | | 1 | Identify four pieces of information from an extract | AO1 | 4 | 5 MINUTES | | |
| | Reading | 2 | Write about the writer's use of language + the effect(s) of the devices and techniques they use | AO2 | 8 | 10 MINUTES | | |
| Jue - | | 3 | Write about how the text is structured | AO2 | 8 | 10 MINUTES | | |
| Paper One | | 4 | Evaluate both a quote about the text + the text itself | AO4 | 20 | 20 MINUTES IN TOTAL (e.g. 5 minutes planning + 15 minutes writing up) | | |
| | Writing | 5 | Produce either a piece of descriptive writing or a piece of narrative writing, making sure my writing is accurate | AO5 | 24 | 45 MINUTES IN TOTAL (e.g. 5 minutes planning + 35 minutes writing | | |
| | | | | AO6 | 16 | + 5 minutes checking / editing.) | | |
| | | 1 | Identify four true statements from a list of eight | AO1 | 4 | 5 MINUTES | | |
| | | 2 | Produce a summary using information from two texts | A01 | 8 | 8 MINUTES | | |
| Paper Two | Reading | 3 | Write about the writer's use of language + the effect(s) of the devices and techniques they use | AO2 | 12 | 12 MINUTES | | |
| Pape | | Compare two writers' perspectives and writing methods | AO3 | 16 | 20 MINUTES IN TOTAL (e.g. 5 minutes planning + 15 minutes writing up) | | | |
| | | Produce one piece of transactional | A05 | 24 | 45 MINUTES IN TOTAL | | | |
| | Writing 5 writing (article / speech / letter e | | writing (article / speech / letter etc.) making sure my writing is accurate | AO6 | 16 | (e.g. 5 minutes planning + 35 minutes writing + 5 Minutes checking/editing.) | | |

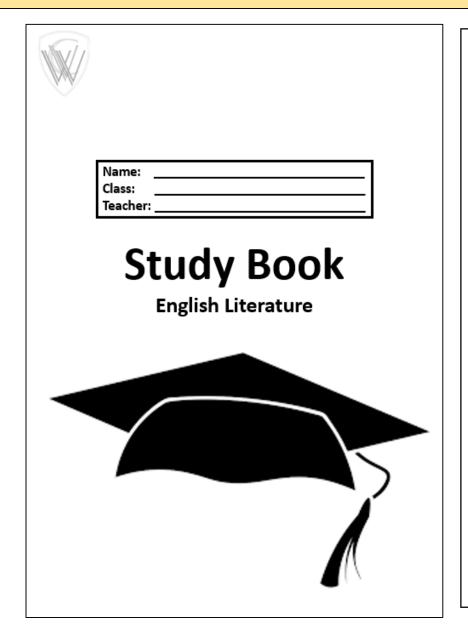
English Language - Reading:

- Practise speed reading of unseen articles/short stories + verbally say what it is about
- Timed example responses
- Read through past papers and the mark scheme to see patterns and expectations (see exercise books)
- Re-draft earlier responses in light of mark scheme

English Language - Writing:

- Plan stories based on titles/ images / plan nonfiction tasks
- Timed responses
- Spelling tests
- Plan extended metaphors/semantic fields
- Revise key techniques and sentences structures
- RE-read and unpick model writing in exercise books

Edulink and exercise books:



- Revision booklets (see website + Edulink)
- Lecture notes
- Revision session materials sign up when on
- Knowledge Organisers / Study Books
- Past papers and questions
- Revision guides not just reading, but re-writing, using as a testing device, draw together revision guide and exercise books to create a new one etc.
- Seneca / Massolit

How revise for maths

Exam layout

- 3 papers 1 non-calculator, 2 calculator.
- Students have been emailed a list of topics. They will have been told whether they are sitting Higher or Foundation for the November mocks.
- Tiers of entry finalised after the February mocks.
 - Foundation (1-5)
 - Higher (4 9) with a safety net at grade 3.
- Students equally likely to achieve a grade 5 at either level.

What should they revise?



Higher Skills List

All students have been emailed a RAG rating topic list.

The corresponding Hegarty videos and clips numbers are also shown.

Give the topic a go or look up last percentage score and move from red to green.

Number

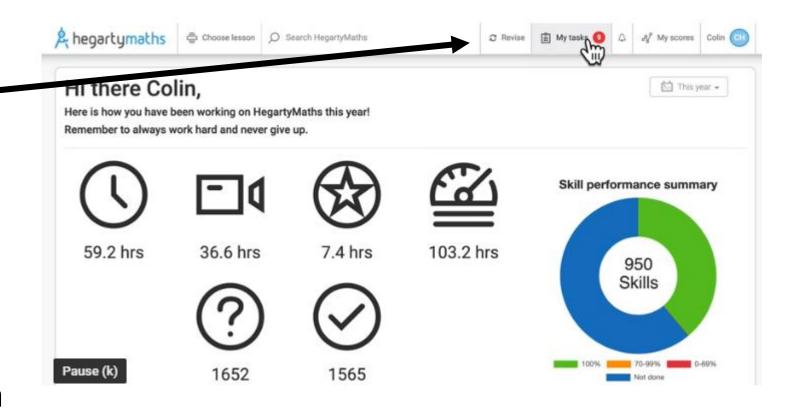
| Topics | Clip Number | R | Α | G |
|---|---------------|---|---|---|
| Calculating with roots and fractional indices | 108, 109, 110 | | | |
| Converting recurring decimals to fractions | 53, 54 | | | |
| Surds: Definition and estimating | 111, 112 | | | |
| Surds: Simplifying, multiplying and dividing | 113, 114, 115 | | | |
| Surds: Expanding brackets | 116, 117 | | | |
| Surds: Rationalising the denominator | 118, 119 | | | |
| Upper and lower bounds | 137, 138, 139 | | | |
| Error intervals | 777 | | | |
| Best buys | 770 | | | |

Retrieval quizzes

There is a new revise tab available on Hegartymaths.

Click on Memri.

This takes all of the quizzes that students have done so far and gives them a quiz on a variety of tasks.



Complete past exam questions

- Past exam papers will be emailed out from the department via Edulink.
- https://www.onmaths.com/— electronic exam style questions that live marks.
- https://drfrostmaths.com/browse.php search for past exam questions for a specific topic.
- Do not do these under test conditions, use them for exam technique.

Learn all formula

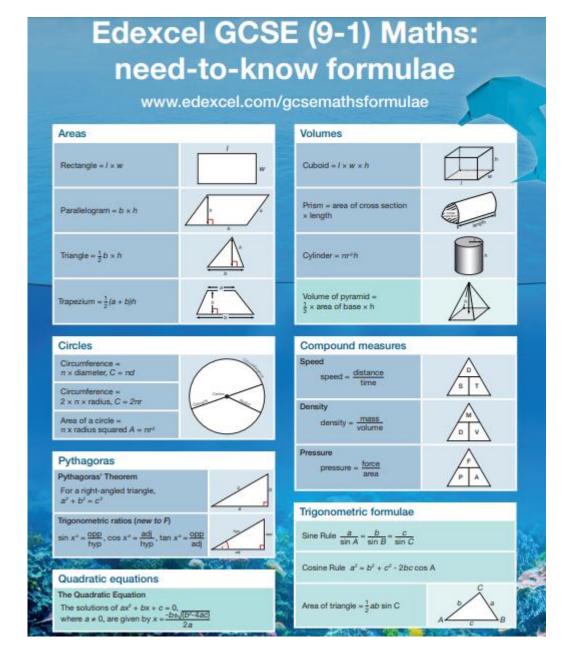
Areas of common 2D shapes including circles.

Pythagoras and Trigonometry formulae.

Volumes of common 3D shapes, including cylinders.

Quadratic formula.

Formula that students are not expected to learn are given with the question for which it is needed.



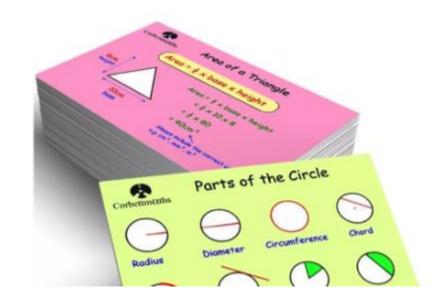
Know your equipment

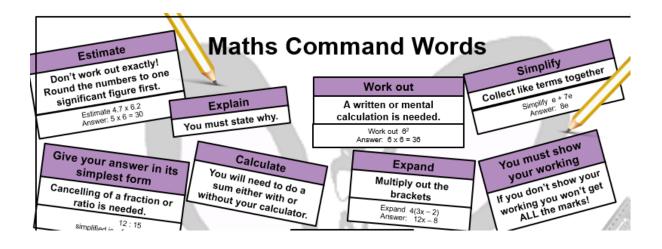
- Know how to use your calculator effectively. It can:
 - Change time from hours/mins to decimal.
 - Convert between fractions and decimals.
 - Show a number as the product of primes.
 - Draw a table of values for you to plot a graph.
- Know how to use your compass to draw arcs and circles.
- Know how to draw and measure degrees with your protractor.



Learn your maths facts and key words

- Learn conversion of units.
- Multiplication tables.
- Learn the vocabulary.
- Learn the command words used in the exam.
- Use revision cards/ knowledge organiser



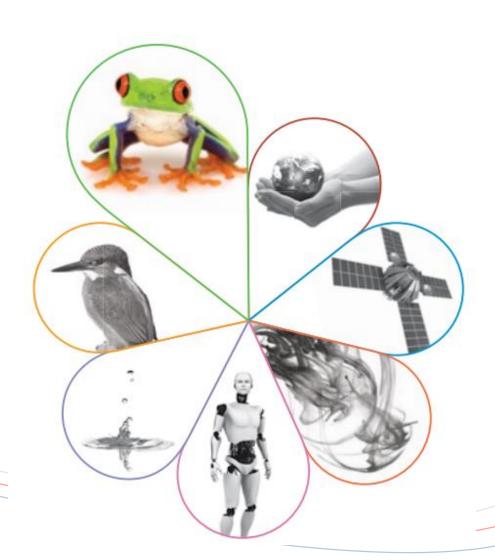


Things to avoid

- Revision guides highlighting and reading are not enough. Only useful when used in conjunction with a workbook.
- Only doing topics you can already do.
- Being too tired Not getting enough sleep can drop a student by a whole grade.
- Not answering a question because you can't finish it.
- Cramming Little an often is the best thing to do. Try Corbett maths 5 a day. https://corbettmaths.com/5-a-day/gcse/

| Name: | 5-a-day | Foundation Plus |
|---|---------------|-------------------------------|
| 1st January | | A |
| Solve the inequality 3x + 4 ≤ 22 | | Corbettmaths |
| A car decreases in value 10% a year. If it was bought for £5000, how much v it be worth after 2 years? | vill | |
| 6cm 4cm | Calculate the | he length of the missing side |

AQA GCSE Science Courses





GCSE Science - Course

• Triple Science students gain 3 GCSE's – Biology, Chemistry and Physics.

Double Award Science (Trilogy) students gain 2 GCSE's

 We hope to finish both courses by February half term – giving plenty of time for revision



Science Assessment

The assessment of GCSE Science is based on exams for 6 exams – 2 each for Biology, Chemistry and Physics

- Double Award (Trilogy) exams are 1 hour 15 minutes each
- Triple Science exams are 1 hour 45 minutes each

 There is NO Controlled Assessment but there will be questions on Required Practicals



Mock Exams

- The November Mock exams will be Paper 1 exams (3 papers)
- The March Mock exams will be Paper 2 exams (3 papers)
- Trilogy students will have 3 papers each of 1 hour 15 minutes
- Triple science students will have 3 papers each of 1 hour 45 minutes



Top 5 Tips: How to prepare for the mock exams

- 1. Identify the areas of the course you need to focus on now
- 2. Use the Science Knowledge Organisers
- Test, Test, Test Student/student, Parent/student (low stakes though)
- 4. Get plenty of Exam Question practice
- 5. Know the Required Practicals for each Science subject



1. Identify the areas of the course you need to focus on now

| Topic | AQA TRILOGY Biology (8464) from 2016 Topic T4.1 Cell biology Student Checklist | R | Α | G |
|----------------------|--|--------|--------|----------|
| - | Use the terms 'eukaryotic' and 'prokaryotic' to describe types of cells | \top | | \vdash |
| | Describe the features of bacterial (prokaryotic) cells | \Box | | Г |
| | Demonstrate an understanding of the scale and size of cells and be able to make order of magnitude calculations, inc standard form | | | Γ |
| | Recall the structures found in animal and plant (eukaryotic) cells inc algal cells | | | \vdash |
| are | Use estimations and explain when they should be used to judge the relative size or area of sub-cellular structures | | | |
| 4.1.1 Cell structure | Required practical 1: use a light microscope to observe, draw and label a selection of plant and animal cells | | | |
| = | Describe the functions of the structures in animal and plant (eukaryotic) cells | | | Γ |
| 10 | Describe what a specialised cell is, including examples for plants and animals | \Box | | Γ |
| 7 | Describe what differentiation is, including differences between animals and plants | | | Г |
| 7 | Define the terms magnification and resolution | | | Γ |
| | Compare electron and light microscopes in terms of their magnification and resolution | | | Γ |
| | Carry out calculations involving magnification using the formula: magnification = size of image/ size of real object -inc standard form | | | |
| | Required practical 2: investigate the effect of antiseptics or antibiotics on bacterial growth using agar plates and measuring zones of inhibition | | | Γ |
| | Describe how genetic information is stored in the nucleus of a cell (inc genes & chromosomes) | \Box | | Γ |
| Sior | Describe the processes that happen during the cell cycle, including mitosis (inc recognise and describe | \Box | | Γ |
| : <u>≅</u> | where mitosis occurs) | | | |
| | Describe stem cells, including sources of stem cells in plants and animals and their roles | \top | \neg | Γ |
| చ | Describe the use of stem cells in the production of plant clones and therapeutic cloning | \top | \neg | Γ |
| 4.1.2 Cell Division | Discuss the potential risks, benefits and issues with using stem cells in medical research/treatments | | | Γ |

2. Science Knowledge Organisers





Why use Knowledge Organisers?

AO1

- Factual recall questions 40% of each GCSE exam.
- 40% % of marks required for grade 5 Biology (HT) 2019
- 40% % of marks required for grade 3-3 in Combined Science (FT)
 2019



There is a Knowledge Organiser for each tonic you study in Science

Biology Topics

Paper 1 – topics 1-4

- Cell biology
- Organisation
- Infection and response
- Bioenergetics

Paper 2 – topics 5-7

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

Chemistry Topics

Paper 1 – topics 8-12

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

Paper 2- topics 13-17

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

Physics Topics

Paper 1 – topics 18-21

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

Paper 2 – topics 22-24

- Forces
- Waves
- Magnetism
- Electromagnetism

Choose your Level

3 levels of organisers depending on your MEG/TAG

- Grade 1-3
- Grade 4-6
- Grade 7-9



How to get the most out of your Knowledge Organisers

Reading them is NOT enough!



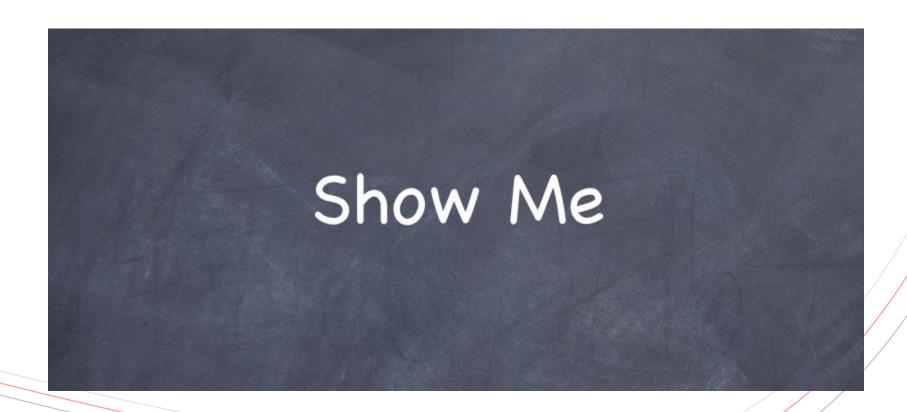


Use Active Revision Techniques

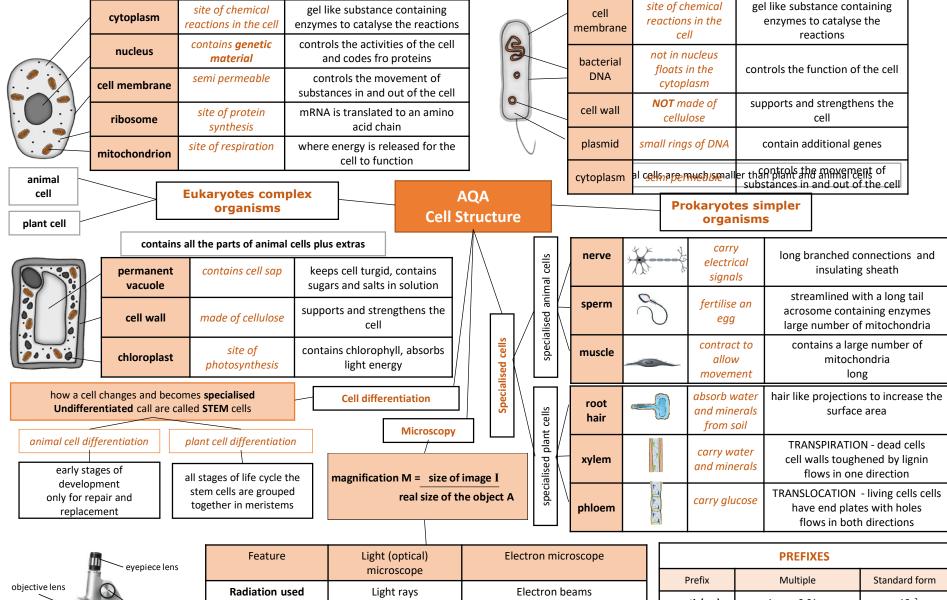
- Remind yourself over and over
- "Look, Cover, Write, Check"
- Remembering labelled diagrams
- Make summaries of the information e.g. "mind maps" or spider diagrams
- Make your own "Flash Cards"
- Practice on real exam questions
- Be clear about what you're expected to know
- Identify your strong and weak areas
- Test each other or parents to test students



Some examples



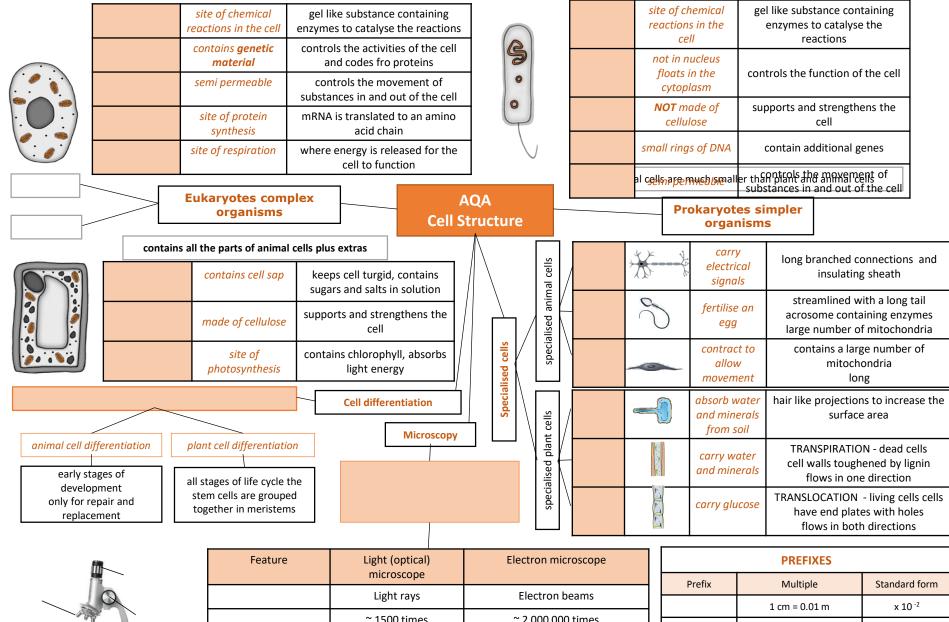






| Feature | Light (optical) microscope | Electron microscope |
|--------------------|-------------------------------|-------------------------------------|
| Radiation used | Light rays | Electron beams |
| Max magnification | ~ 1500 times | ~ 2 000 000 times |
| Resolution | 200nm | 0.2nm |
| Size of microscope | Small and portable | Very large and not portable |
| Cost | ~£100 for a school one | Several £100,000 to £1 million plus |

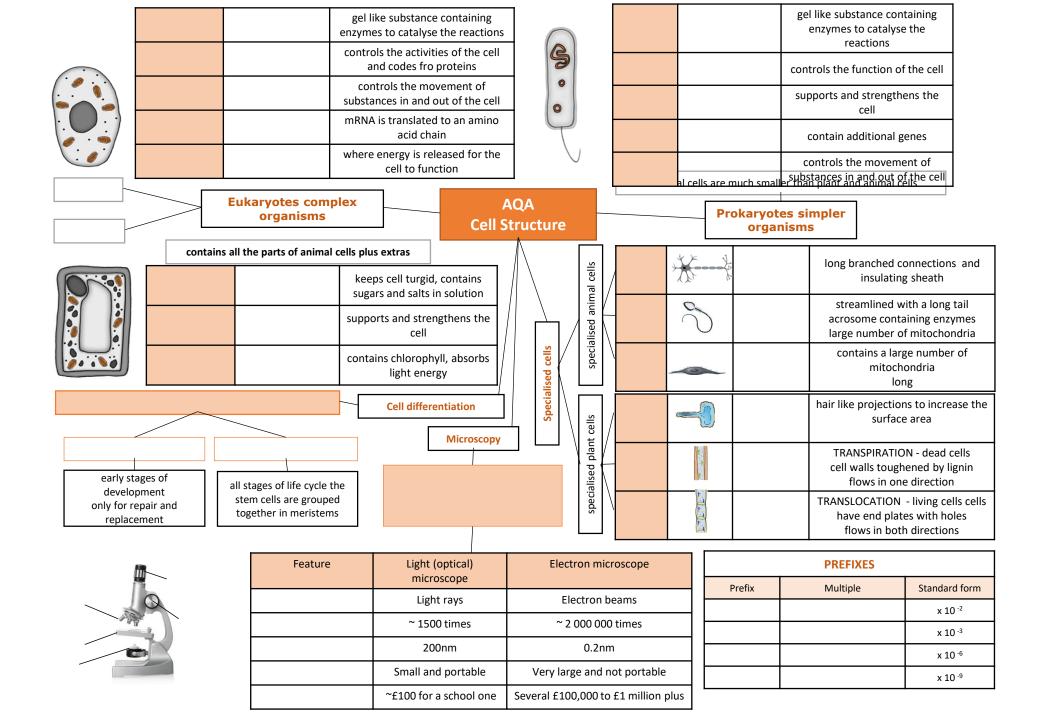
| PREFIXES | | | | | |
|------------|-----------------------|--------------------|--|--|--|
| Prefix | Multiple | Standard form | | | |
| centi (cm) | 1 cm = 0.01 m | x 10 ⁻² | | | |
| milli (mm) | 1 mm = 0.001 m | x 10 ⁻³ | | | |
| micro (μm) | 1 μm = 0.000 001 m | x 10 ⁻⁶ | | | |
| nano (nm) | 1nm = 0.000 000 001 m | x 10 ⁻⁹ | | | |

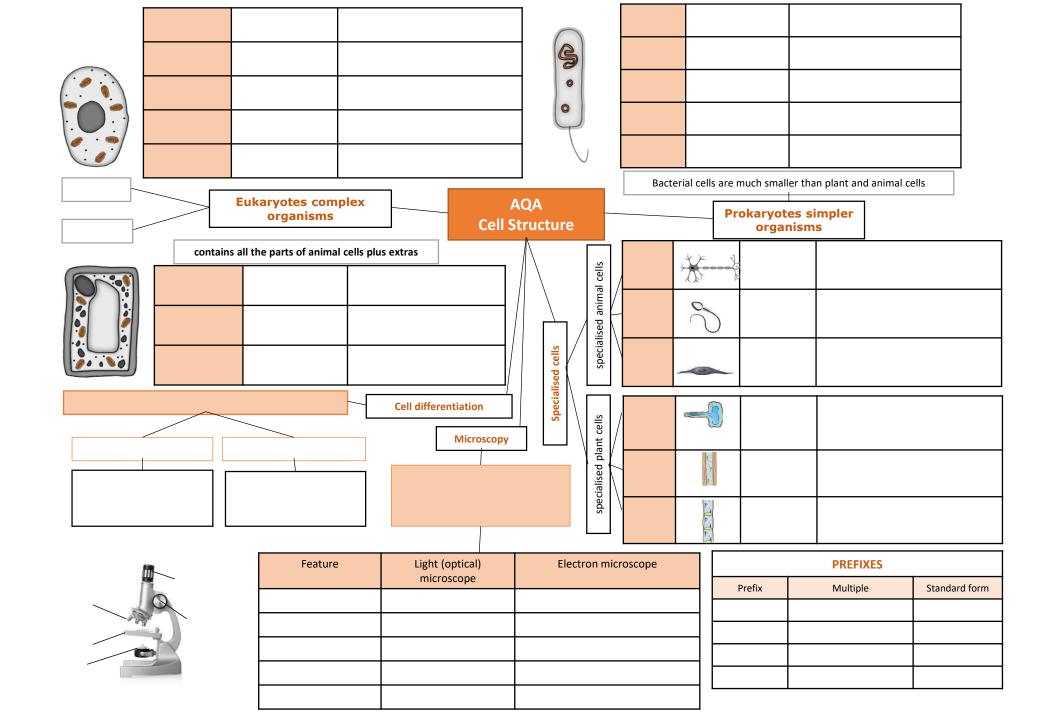




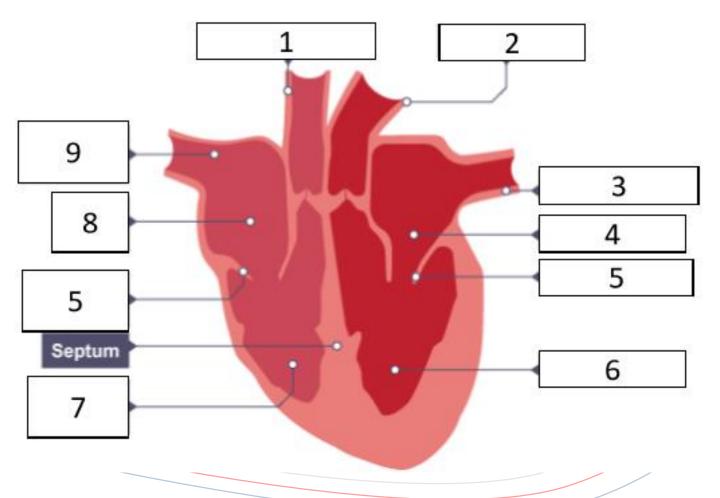
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Remembering labeled diagrams



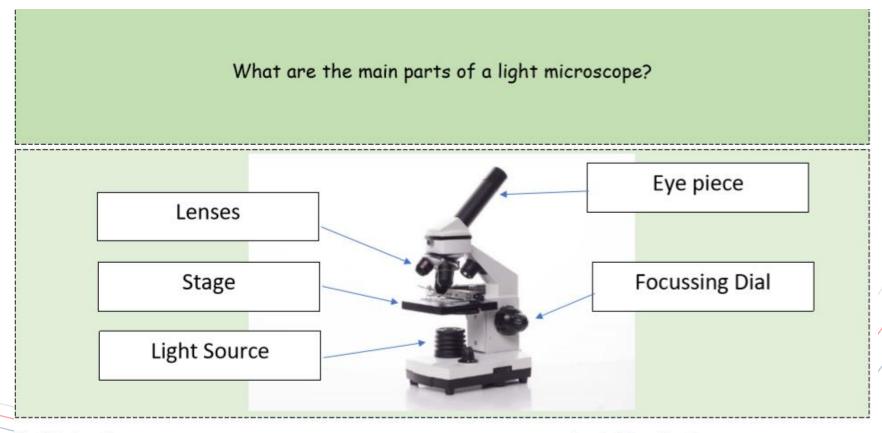


3. Test, Test, Test (low stakes!)

- Most of our students like using flashcards.
- Try using the ones we have provided to test the students on their knowledge.
- Do this is small chunks 10 minutes at time and have a bit of fun or a reward for getting the questions correct!
- Also Use the Knowledge Organisers to test the students we will!



Examples of Flashcards: Biology



Card Number: 2 Topic: 1 Cell Structure Level of Question: Secure Specification: 4.1.1.5



Examples of Flashcards: Biology

How is the trachea and bronchi adapted to defend against pathogens?

Hairs and mucus trap dust and microbes. These are then carried away from cilia, which are tiny hairs which line the trachea.



Card Number: 2

Topic: 6 Infection and Response

Level of Question: Secure Specification: 4.3.1.6



Examples of Flashcards: Chemistry

What methods can be used to separate a mixture?

Filtration,
crystallisation,
simple distillation,
fractional distillation
and chromatography.

Card Number: 3

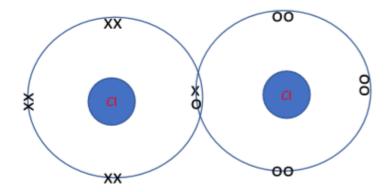
Topic: 1 Atomic structure and the periodic table

Level of Question: Secure Specification: 4.1.1.1



Examples of Flashcards: Chemistry

Draw the bonding in Cl2



Card Number: 4
Topic: 2 Bonding, structure and the properties of matter

Level of Question: Secure Specification: 4.2.1.4



Examples of Flashcards: Physics

How is gravitational potential energy calculated?

g. p.e. = mass × gravitational field strength × height

Card Number: 1 Topic: 1 Energy Level of Question: Secure Specification: 4.1.1.2



Examples of Flashcards: Physics

How does the motion of gas particles vary in different temperatures?

The higher the temperature, the greater the kinetic energy of each particle and so they move around more.

This causes more collisions with the walls of the container and so pressure is greater.

Card Number: 1

Topic: 3 Particle model of matter

Level of Question: Mastering Specification: 4.3.3.1



4.Get plenty of Exam Question practice

- Open the folder 'Kerboodle Topic Tests'. For each topic studied there
 are exam type questions for you to try. Print these out and try one
 under exam conditions.
- Look at the mark scheme and see what you got right and where you went wrong.
- Re-draft your answer by adding in the information that you missed out.
- Do this in a different colour pen so it stands out



4.Get plenty of Exam Question practice

Try the past papers from the AQA exam board site

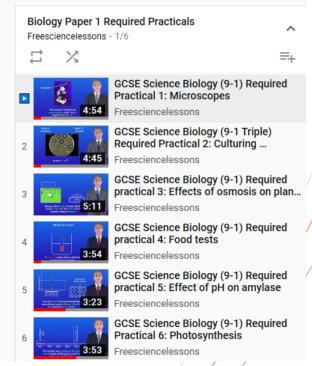


5. Know the Required Practicals for each Science subject

- Questions on Required practicals make up 15% of each exam so you need to know them really well.
- A great YouTube site is 'free science lessons'.









And Finally...

You get what you deserve!

• A few marks extra can change a grade

• Let's work together to ensure that the results in 2020 are our best ever.



Learning

- 1. Encoding
- 2. Storage
- 3. Retrieval

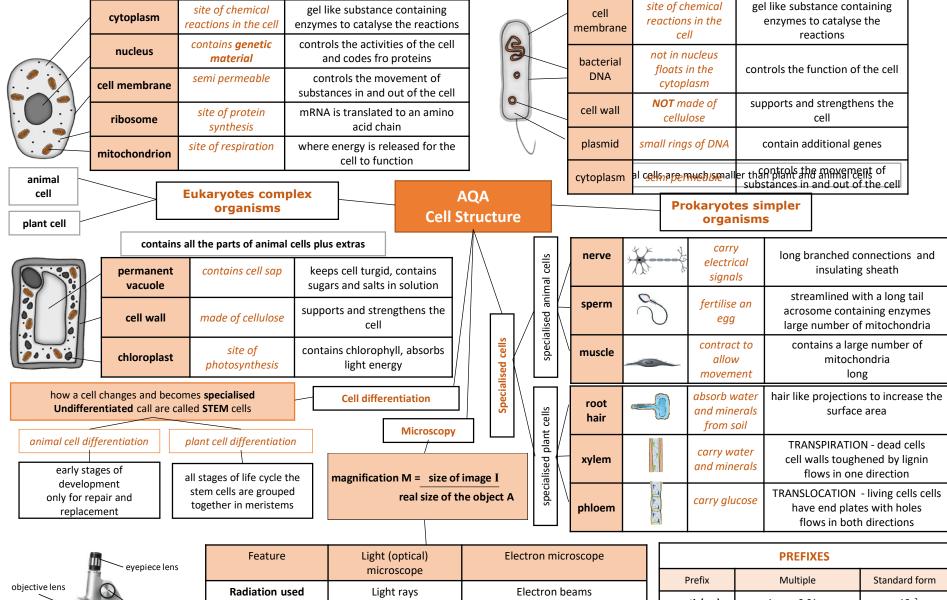


- Spacing out revision: average mark of 74%
- Cramming: average mark of 49%

Why use (blank) KOs?

• Dunning-Kruger effect

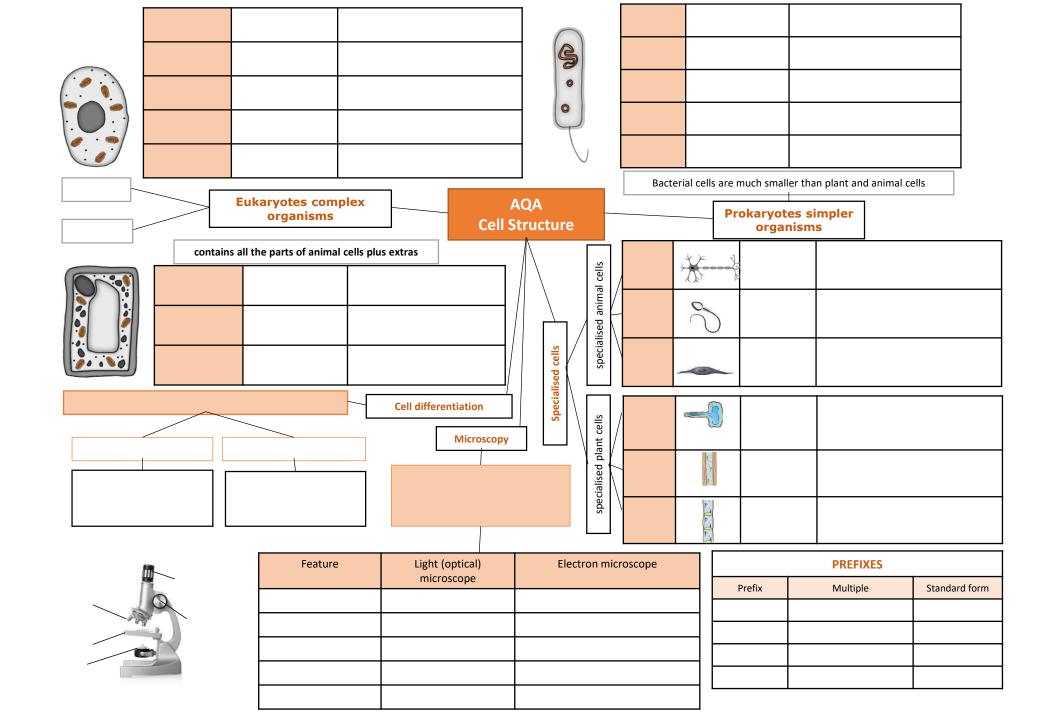






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The Testing Effect

- Students who had one study session followed by retrieval practice did 30% better than those who did two sessions of reading
- The longer you need to remember information, the more powerful the Testing Effect is.
- Students rated re-reading as being more effective but students who mainly used retrieval remembered over 50% more.
- Students did 12% better if they read the words out loud.



Stress

Students who revised using retrieval practice out-performed the students who re-read notes by 17-26%

Stress impairs memory because the increased cortisol blocks pathways near the hippocampus (part of the brain largely responsible for memory)

BUT

Retrieval offers a solution: generating an answer cretaes numerous and clear routes to accessing this information in our brain

