

SCIENCE

Miss Hawke

GCSE grades Combined Science

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Equivalent to 252 marks Trilogy	demand	7	
combined		6	
40%	Standard demand	5	5
Equivalent to 168 marks Trilogy		4	4
combined		3	3
60% Equivalent to	Low demand		2
252 marks Trilogy			1
combined		U	U

GCSE grades Separate Science



Exam board AQA

Assessment consists of 6 papers altogether, two biology, two chemistry and two physics

Foundation and Higher.

Question types: multiple choice, structured, closed short answer and open response. 15% of GCSE marks in exams come from questions relating to practicals.

1 hour 15 minutes

Double award

2 GCSEs

1 hour 45 minutes

3 separate GCSEs

Biology, Chemistry, Physics

EXAM DATES

Combined Science and Triple Science

Biology	Paper 1/1	B1-4	Friday 10 th May 2024
Chemistry	Paper 2/1	C1-5	Friday 17 th May 2024
Physics	Paper 3/1	P1-4	Wednesday 22 nd May 2024
Biology	Paper 4/2	B5-7	Friday 7 th June 2024
Chemistry	Paper 5/2	C6-10	Tuesday 11 th June 2024
Physics	Paper 6/2	P5-7 or 8	Friday 14 th June 2024

REVISION GUIDES

Purchase a science specific revision guide (from school shop - if you haven't already done so)

Comes with

free online

access

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The

GCSE Ph

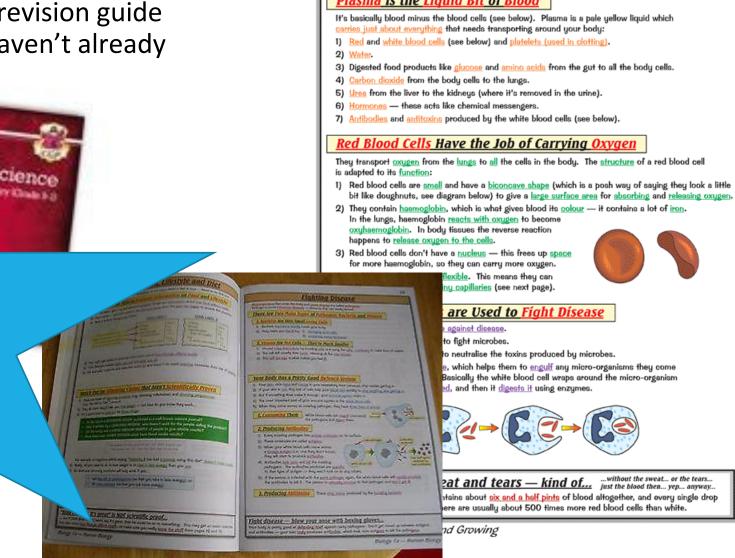
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The Novinies Gu

Functions of the Blood Blood is very useful stuff. It's a big transport system for moving things around the body. The blood cells do good work too. The red blood cells are responsible for transporting oxugen about, and they carry 100 times more than could be moved just dissolved in the plasma. And as for the white blood cells...

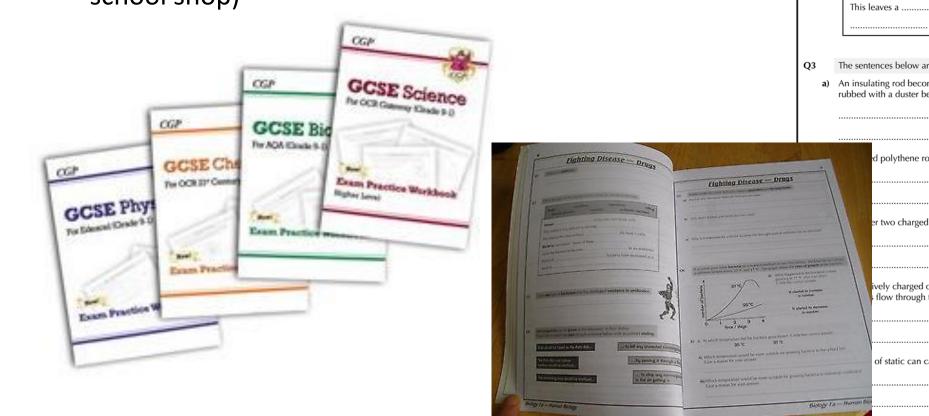
Plasma is the Liquid Bit of Blood



42

REVISION WORKBOOKS

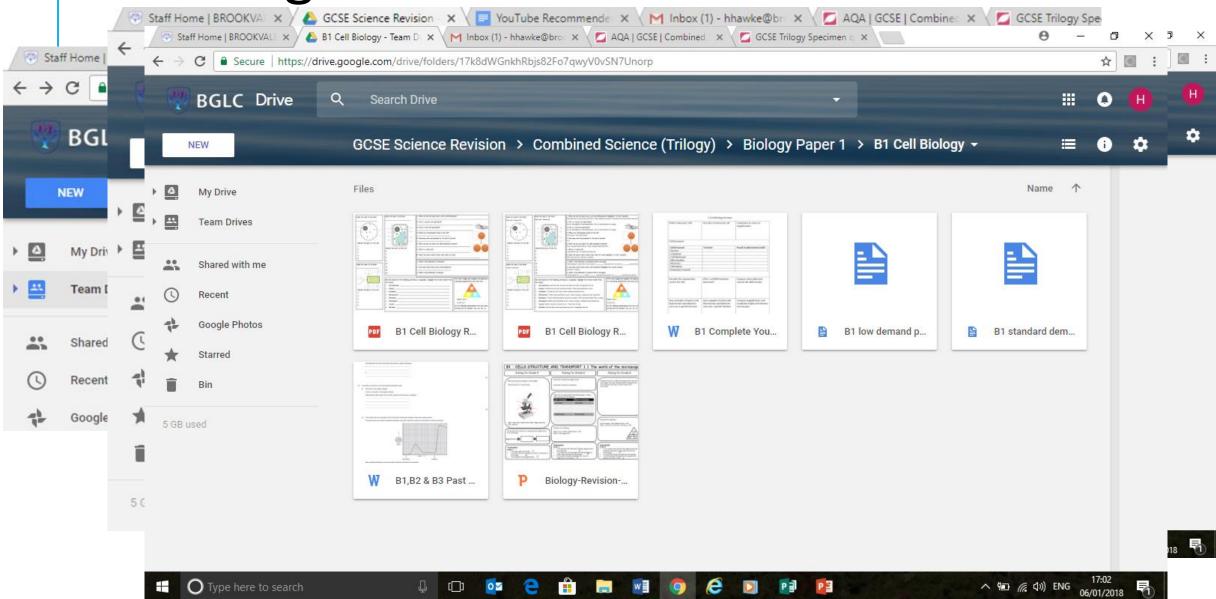
Some students may benefit from using a dedicated science specific workbook (available with answer booklet from the school shop)

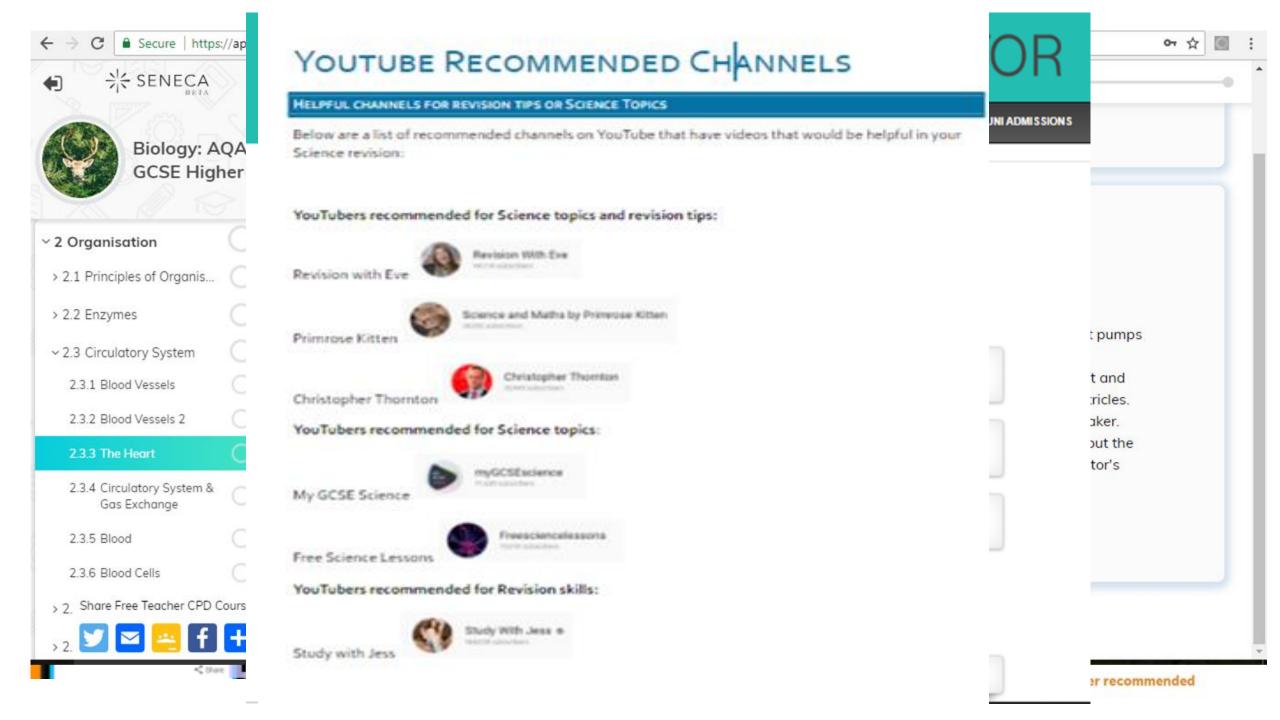


	Module P4 — Radiation for Life
S	<u>Static Electricity</u>
	Q1 Circle the pairs of charges that would attract each other and underline those that would re-
	positive and positive and negative negative and positive negative and
	Q2 Fill in the gaps in these sentences with the words below.
	electrons positive static insulating negative
	are rubbed together. The charge on one of the materials and a
	d polythene rod will repel small pieces of paper if they are placed near it.
fighting Disease — Dres	er two charged objects are together, the less strongly they attract or repel.
and and a second	ively charged object is connected to earth by a metal strap, for which we want to be a metal strap, for which we want to be a metal strap, for the object to the ground.
 A statistic constrained in a statistic protection of the statistic statis	of static can cause sparks if the distance between the object and the earth is big
Contra manager and a state stress	
	Biology Ta - Hornin Ba

module P4 - Radiation for Life

Google drive – revision materials





GCSE REQUIRED PRACTICALS

https://www.youtube.com/c/MalmesburyEducation/playlists

GCSE Science Required Practicals



GCSE Biology Required Practicals

Malmesbury Education VIEW FULL PLAYLIST



GCSE Physics Required Practicals Malmesbury Education VIEW FULL PLAYLIST

GCSE Chemistry Practicals Malmesbury Education VIEW FULL PLAYLIST

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Practicals Malmesbury Education



31

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VIEW FULL PLAYLIST

TASSOMAI

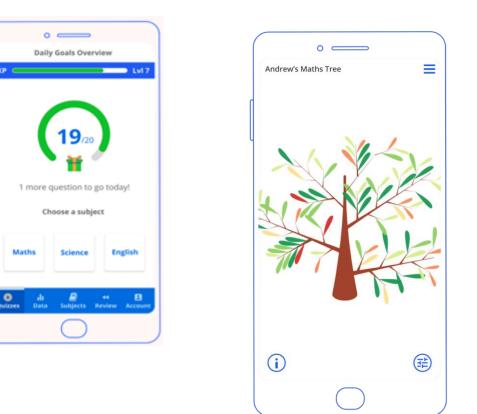
Online learning and revision platform Multiple choice quizzes Daily goals: 3X per week Comb Sci 4X for Sep Sci Organises and spreads out learning Personalises content Builds knowledge Generate a virtual tree to represent learning

TASSOMAL

The scientific way to study

Welcome to Tassomai

(pronounced Tass-oh-my)



REVISION IN SCHOOL

Most classes will finish formal teaching of content by mid march Preparation formal assessments Revision in class: Recap-teaching of difficult topics Focussed exam question prep Independent study

NO HEADPHONES WILL BE ALLOWED

PLAN AHEAD

Revision timetable

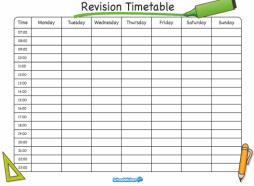
PLCs to understand the areas of weakness

Make mind maps for each topic or use the ones on the google drive

Make revision cards with key ideas

Practice past paper questions

Ask your teacher for help!!!



secticides are

ungicides are

Evaporation from leave is called...

The four layers in a leaf

Rate of transpiration affected by...

Plants absorb minerals through the...

Organic farming is

Fentilisens contain

Plants make

B4 It's a

Rate of decay

attery farmir

What is a flower

What is the function of leaves?

The organisms which cause decay are:

esticides are What is chlorophyll?

What are biof uels

Biological control is

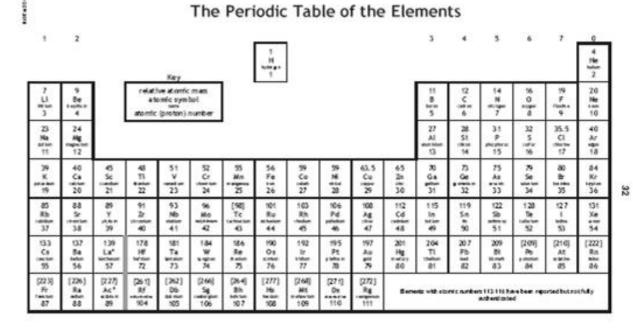
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BCSE Combined Seisne

EXAM TIPS

For this year only the physics equations are provided for the physics exams

A periodic table is provided for the chemistry exams



* The ion thanoids (atomic numbers 58-71) and the activalds join mic numbers 90-103) have been amilted.

The relative atomic masses of copper and chiorine have not been munded to the nearest whole number.

AQA

Physics Equations Sheet GCSE Combined Science: Trilogy (8464) and GCSE Combined Science: Synergy (8465)

FOR USE IN JUNE 2022 ONLY

HT = Higher Tier only equations

kinetic energy = 0.5 × mass × (speed) ²	$E_k = \frac{1}{2} m v^i$
elastic potential energy = 0.5 × spring constant × (extension) ²	$E_{\ell} = \frac{1}{2} k e^{i}$
gravitational potential energy – mass X gravitational field strength X height.	$E_p = m g h$
change in thermal energy - mass ${\sf X}$ specific heat capacity ${\sf X}$ temperature change	$\Delta E = m c \Delta \theta$
power - energy transferred time	$P = \frac{E}{t}$
power - work done time	$P = \frac{W}{t}$
efficiency = useful output energy transfer total input energy transfer	
efficiency = useful power output total power input	
charge flow - current × time	Q = It
potential difference - current × resistance	V=IR
power - potential difference × current	P=VI
power - (current) ² × resistance	P=fR
energy transferred - power X time	E=Pt

Physica Equations Street – GCSE Combined Science: Trilogy (MHM) and GCSE Combined Science: Synergy (MHS

FOR USE IN JUNE 2022 ONLY

Turn over >

EXAM TIPS

Rough guide is 1 mark per minute!

Have a go, if in doubt put something it down (no answer = no mark)

- 9 Enzymes have many industrial uses.
 - (a) Draw straight lines to join each enzyme with the correct use of the enzyme.

Draw only three lines.

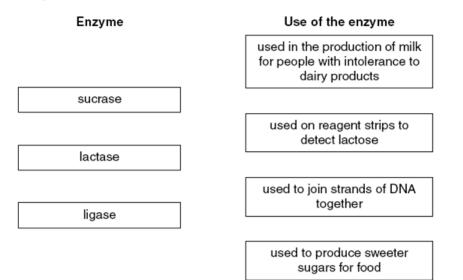


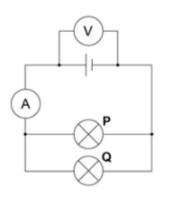
Figure 1 shows a circuit diagram containing two identical lamps arranged in parallel.

The reading on the ammeter is 186 mA.

0 1

[2]

Figure 1



1 Which statement about the current through the lamps is true? Tick one box.
 The current through both lamp P and lamp Q is 0.093 A
 The current through both lamp P and lamp Q is 0.186 A
 The current through both lamp P and lamp Q is 0.93 A
 The current through both lamp P and lamp Q is 1.86 A



LONGER ANSWER QUESTIONS

Don't be daunted by the 4 - 6 mark questions.

Read the stem of the question, it often has vital information.

Read the command words carefully – describe, explain, compare, evaluate

If data- table/graph is given, use it!

It is OK to bullet point your answer.

Read through what you have written!!!

Dare to have a go!

3 Look at the picture of a firefly.

The firefly is able to give out flashes of bright light to attract a mate.

Just after dark is the best time to see fireflies flashing light.

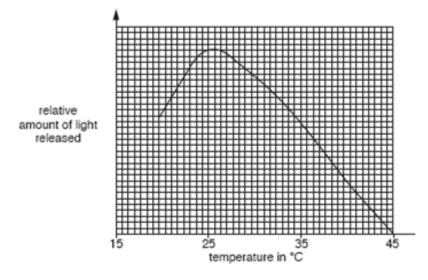


The reaction that releases the light involves the breakdown of a chemical.

An enzyme called luciferase is needed for this reaction.

Look at the graph.

It shows how temperature affects the reaction that releases light.



(a) Use data from the graph to explain the effect of temperature on luciferase and explain why it is only luciferase enzyme that will catalyse this reaction.

If data is given, use it!
[6]



In coronary heart disease (CHD) layers of fatty material build up inside the coronary arteries. This can cause a heart attack.

Statins and stents can be used to reduce the risk of a heart attack in people with CHD.

Evaluate the use of statins and stents in people with CHD.

Remember to include a justified conclusion.

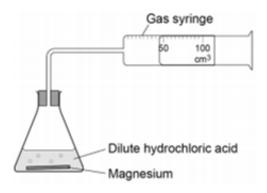
[6 marks]

Evaluation – remember to give balanced arguments and a **conclusion**

0 3

A student investigated the rate of the reaction between magnesium and dilute hydrochloric acid. The student used the apparatus shown in **Figure 4** to collect the gas produced.

Figure 4



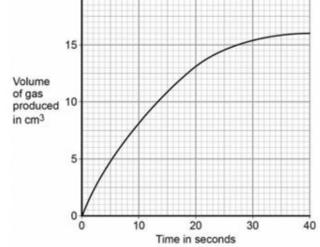
- 0 3 . 1 Outline a plan to investigate how the rate of this reaction changed when the concentration of the hydrochloric acid was changed.
 - Describe how you would do the investigation and the measurements you would make.
 - Describe how you would make it a fair test.

You do not need to write about safety precautions.

[6 marks]

15% of GCSE marks in exams come from questions relating to practicals.

DATA ANALYSIS AND EVALUATION



If data is given, use it!

0 2



5 A driver wishes to buy a new car.

Draw a tangent to the curve at 20 seconds.

Determine the rate of the reaction at 20 seconds by calculating the gradient of the tangent.

Give the unit.

[4 marks]					
4 marksi		-	-	A	
	a	m	ar	ъs	21

Table 1 gives some data about an electric car and one with a petrol engine.

Table 1

	Electric car	Petrol engine car
Cost (£)	27 000	15 000
Running cost per year (£)	250	2 000
Average lifetime (years)	12	12

Which car would be the most economic over its 12 year lifetime?

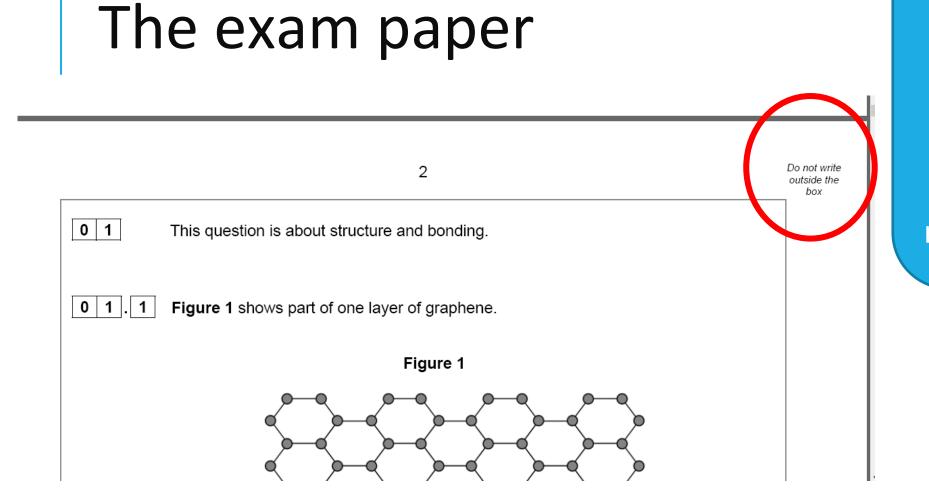
Use data from Table 1 to support your answer.

You should include the difference in cost in your answer.

[4 marks]

Rate of reaction =

Unit =



Do not write outside the box, exam papers are scanned and therefore any writing outside of the box may be missed and will not get marked

AQA - INSIGHT FROM THE LAST PREVIOUS EXAMS

Prepare for unfamiliar contexts

GCSE biology students are sharing their horror at a tough, carrot-based question

These students are numbing the pain of a difficult exam with hilarious Tweets.



Biology students weren't expecting a question about carrots in their GCSE exam

AQA - INSIGHT FROM PREVIOUS EXAMS

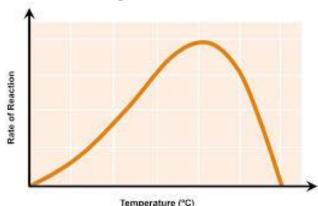
Prepare for unfamiliar contexts

Read the question carefully to ensure you know what is being asked, understand the command words

Don't waste space repeating the question

Read through your work to check for errors

Be specific in your responses don't use 'it' or 'they'



Make sure you understand why each step in the practical is important

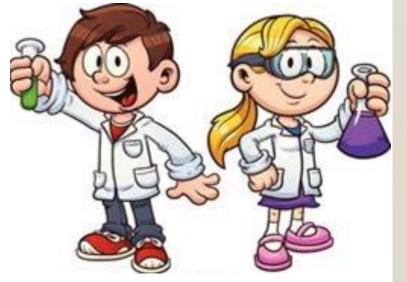
Maths - Show your working out in maths questions

- Check for significant figures
- Don't round answers until you reach the final answer

General tips

Plan revision – small chunks Take a break – do something active Revise in a calm environment...... remove distractions Controlled access to electronic devices Sleep! Breakfast before exams! Right equipment on the day: Black pen (and spare) •

- Pencil, ruler and rubber for graphs
- Calculator!



GOOD LUCK in your EXAMS!

You'll be AMAZING, I asked around-We all agreed!

