

SCIENCE

Miss Hawke





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

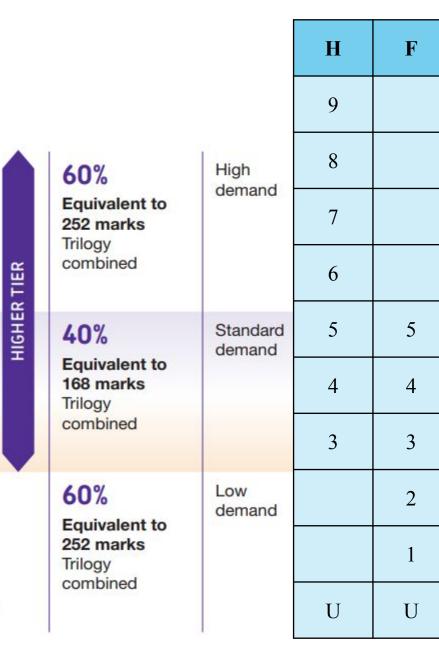
1 hour 45 minutes

3 separate GCSEs

Biology, Chemistry, Physics

GCSE grades Combined Science

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GCSE grades Separate Science

EXAM DATES

Combined Science and Triple Science

Biology Paper 1/1B1-4Tuesday 13th May 2024Chemistry Paper 2/1C1-5Monday 19th May 2024Physics Paper 3/1P1-4Thursday 22nd May 2024Biology Paper 4/2B5-7Monday 9th June 2024Chemistry Paper 5/2C6-10Friday 13th June 2024PhysicsPaper 6/2P5-7 or 8Monday 16th June 2024

REVISION GUIDES

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

42 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 It's basically blood minus the blood cells (see below). Plasma is a pale uellow liquid which carries just about everything that needs transporting around your body: 1) Red and white blood cells (see below) and platelets (used in clotting). 2) Water. 3) Digested food products like glucose and amino acids from the gut to all the body cells. 4) Carbon dioxide from the body cells to the lungs. 5) Urea from the liver to the kidneys (where it's removed in the urine). 6) Hormones - these acts like chemical messengers. 7) Antibodies and antitoxins produced by the white blood cells (see below). **Red Blood Cells Have the Job of Carrying Oxygen** They transport oxugen from the lungs to all the cells in the body. The structure of a red blood cell is adapted to its function: 1) Red blood cells are small and have a biconcave shape (which is a posh way of saying they look a little bit like doughnuts, see diagram below) to give a large surface area for absorbing and releasing oxugen. 2) They contain haemoglobin, which is what gives blood its colour - it contains a lot of iron.

In the lungs, haemoglobin reacts with oxugen to become oxyhaemoglobin. In body tissues the reverse reaction happens to release oxugen to the cells.

3) Red blood cells don't have a nucleus - this frees up space for more haemoglobin, so they can carry more oxygen. flexible. This means they can

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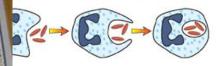
against disease.

iny capillaries (see next page).

to fight microbes.

to neutralise the toxins produced by microbes.

e, which helps them to engulf any micro-organisms they come Basically the white blood cell wraps around the micro-organism ed, and then it digests it using enzymes.



eat and tears — kind of ... "without the sweat ... or the tears just the blood then ... yep ... anyway ... ntains about six and a half pints of blood altogether, and every single drop ere are usually about 500 times more red blood cells than white.

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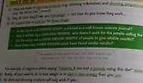
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REVISION WORKBOOKS

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

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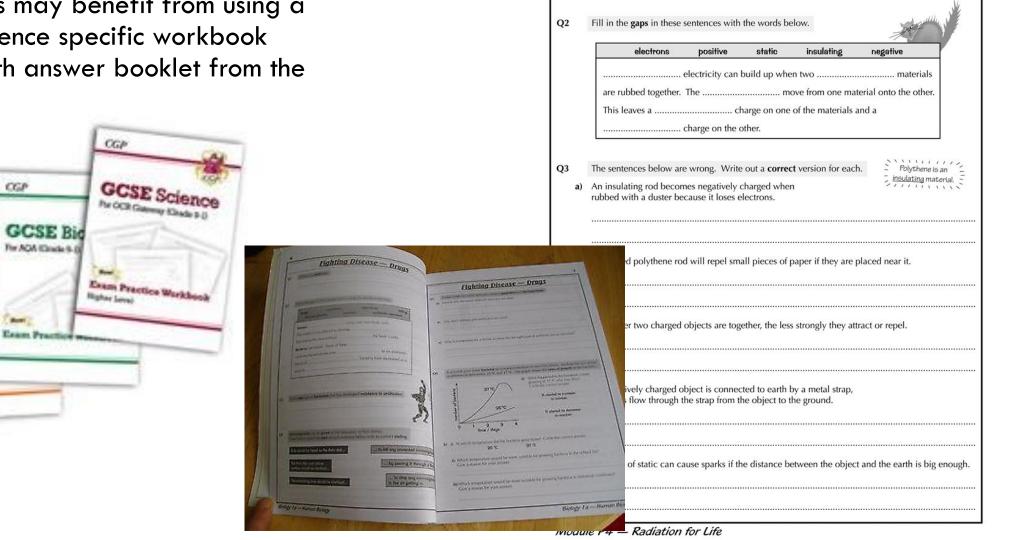
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positive and positive

Module P4 — Radiation for Life

Static Electricity

positive and negative

Circle the pairs of charges that would attract each other and underline those that would repel.

negative and positive

negative and negative

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2.3.4 Circulatory System & C Gas Exchange	Topic 3:	Topic 7:	
2.3.5 Blood	Infection and Response	Ecology	
2.3.6 Blood Cells	Topic 4:		
Share Free Teacher CPD Cours	Bioenergetics		

YouTubers recommended for Science topics and revision tips:

Free Science Lessons <u>https://www.freesciencelessons.co.uk/</u>

Primrose Kitten <u>https://www.primrosekitten.com/</u>

Christopher Thornton <u>https://www.youtube.com/user/ChrisThorntonUK</u>

Science practical's https://www.youtube.com/@MalmesburyEducation/featured

Useful website for exam questions

Physics and Maths tutor <u>https://www.physicsandmathstutor.com/</u>

Grade Gorilla <u>https://www.gradegorilla.com/</u>

GCSE REQUIRED PRACTICALS

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

GCSE Science Required Practicals



GCSE Biology Required Practicals

Malmesbury Education



GCSE Physics Required Practicals Malmesbury Education VIEW FULL PLAYLIST GCSE Chemistry Practicals Malmesbury Education VIEW FULL PLAYLIST

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GCSE Science Required Practicals Malmesbury Education 31

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VIEW FULL PLAYLIST

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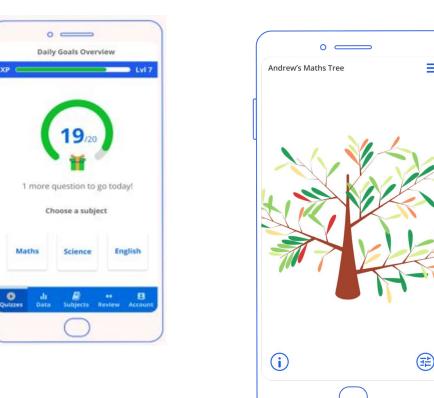
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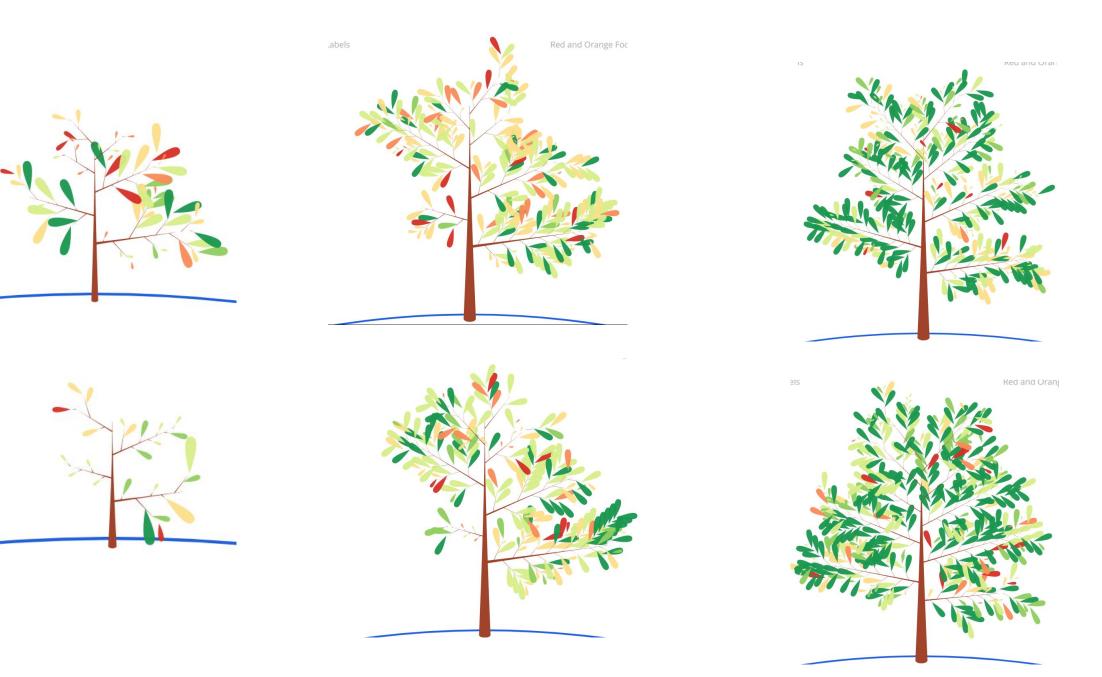


The scientific way to study

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

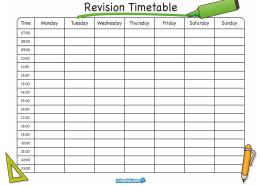
PLCs to understand the areas of weakness

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!!!



Osmosis is when

The four layers in a leaf

Rate of transpiratio affected by...

Plants absorb minerals through the...

Intensive forming is

Organic farming is

Insecticides are

Fungicides are

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Decay is

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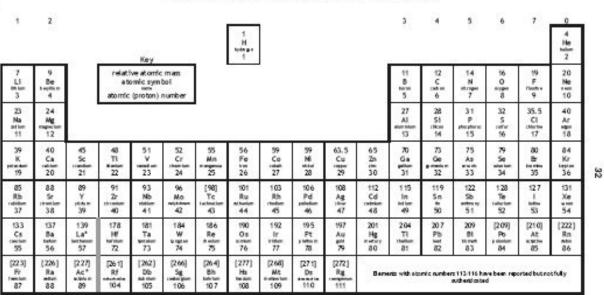
GCSE Combined Science

AN A

EXAM TIPS

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

A periodic table is provided for the chemistry exams



The Periodic Table of the Elements

* The lanthanolds (atomic numbers 58-71) and the actinoids (atomic numbers 90-103) have been omitted.

The relative atomic masses of copper and chiorine have not been rounded 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	$E_k = \frac{1}{2} m v^2$
elastic potential energy = 0.5 × spring constant × (extension) ²	$E_x = \frac{1}{2} k e^2$
gravitational potential energy – mass \times gravitational field strength \times height	$E_p = m g h$
change in thermal energy - mass × specific heat capacity × 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	$P = f^2 R$
energy transferred - power × time	E = P t

Physics Equations Sheet – GCSE Combined Science: Trilogy (8484) and GCSE Combined Science: Synergy (8485) FOR USE IN JUNE 2022 ONLY Turn over >

EXAM TIPS

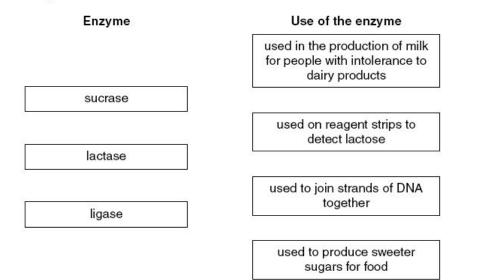
Rough guide is 1 mark per minute!

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.

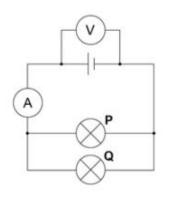


0 1

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

The reading on the ammeter is 186 mA.

Figure 1



01.1	Which statement about the current through the lamps is true?	14 -
	Tick one box.	[1 r
	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	

[1 mark]

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.

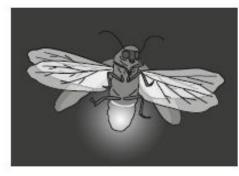
Read through what you have written!!!

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.

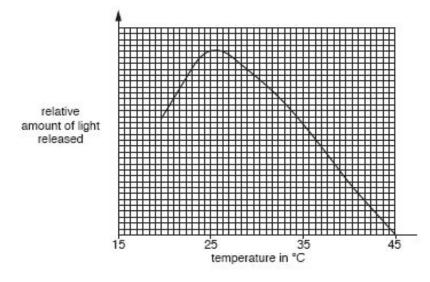


The reaction that releases the light involves the breakdown of a chemical.

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!

0 5.3

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.

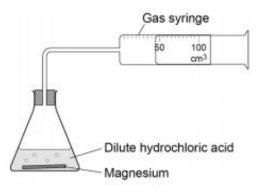
Evaluate the use of statins and stents in people with CHD.

Remember to include a justified conclusion.

[6 marks]

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

Outline a plan to investigate how the rate of this reaction changed when the concentration of the hydrochloric acid was changed.

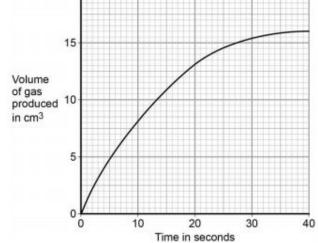
- Describe how you would do the investigation and the measurements you would make.
- Describe how you would make it a fair test.

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



lf data is given, use it!

5



0 2

A driver wishes to buy a new car.

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

Table 1

5	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.

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 marks]

Rate of reaction =

100

Unit =

The exam paper Do not write 2 outside the box 0 1 This question is about structure and bonding. Figure 1 shows part of one layer of graphene. 0 1 1 Figure 1

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

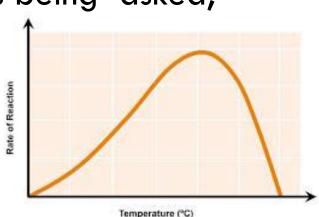
Read through your work to check for errors

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

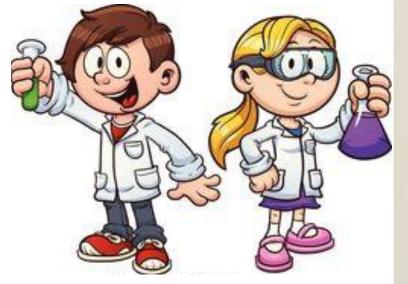
- Check for significant figures
- Don't round answers until you reach the final answer



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!

