GCSE English

Information for Parents

Your child is studying two GCSEs

GCSE Language

- Two 2 hour exams
- Completely unseen texts
- 20th narrative fiction
- Creative writing
- Comparison of 19th and 21st century non-fiction extracts
- Persuasive or transactional writing

GCSE Literature

- Two exams (2 hours and 2 ½ hours)
- Closed book exams
- Shakespeare play
- Poetry Anthology
- An Inspector Calls
- A Christmas Carol
- Comparison of two unseen poems



English is about skills as well as knowledge



Your child will need specific subject knowledge BUT a large part of their revision will be **practising** how they use that knowledge, particularly on their Language exams.



How can your child revise for....?

GCSE ENGLISH LANGUAGE

Revising for Reading components



- Fiction component
- Non-fiction component

 The exams are essentially a comprehension test – how well do students understand what they've read?

At home, students can revise by:

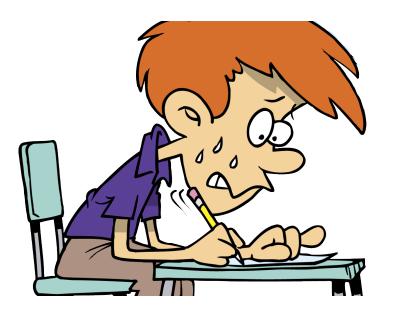
- going through their folder and previous work looking at targets set by their teacher. Practise questions with these targets in mind.
- practising the questions/assessment objectives that they find challenging.
- using SAM Learning and GCSEPod to access further online fiction, 19th and 21st non-fiction resources.
- practising 'R.A.T.ing' questions.
- practising the timing for questions until they can be answered within the time allocations (usually 15 minutes for a 10 mark answer).
- review examples responses given to them by their teacher and try to use them to improve their own answers.
- ensuring they know the format of the exam papers: i.e. how many marks each style of questions is worth; how long is needed on each question; what reading skills is being assessed on each question.

Revising for Writing components



- Write a short story
- Write two persuasive and/or transactional (real world situation) pieces
- Students are tested on their understanding of audience and purpose.





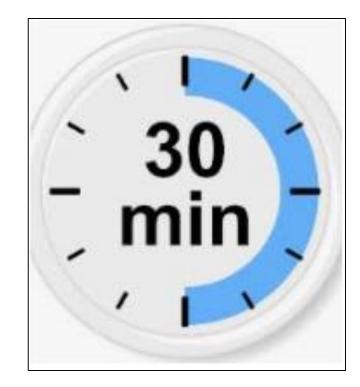
Reading and understanding the question before planning their answer.



Writing their answers: about five thoughtful paragraphs



Proofreading their answers.



At home, students can revise by:

- practising 'R.A.T.ing' a variety of writing tasks for paper 2.
- practising planning responses to both writing sections: they need to be able to plan within a very specific time frame.
- practising writing opening paragraphs; different paragraph structures; using different techniques; writing closing paragraphs.
- spending time improving their proof reading skills by practising this skill. They can also independently use GCSEPod and SAM Learning to revise key spelling, punctuation and grammar.
- the closer students get to their exams, the more they need to be practising writing in timed conditions.

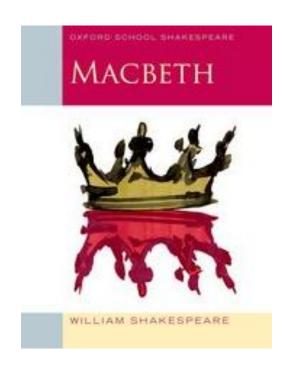


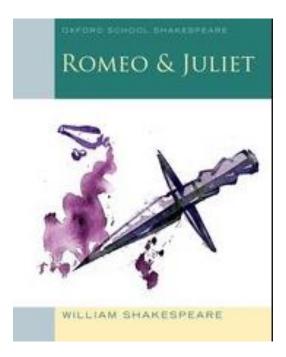
How can your child revise for....?

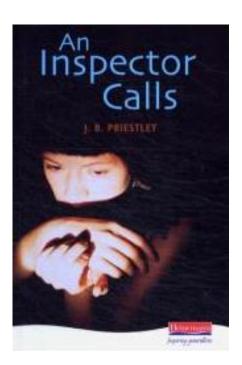
GCSE ENGLISH LITERATURE

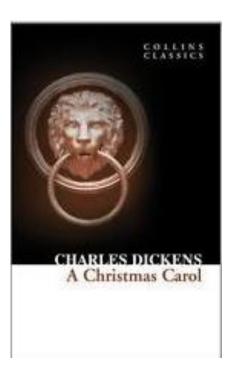
There's no substitute for reading the texts

Audio versions are available for free on YouTube or for purchase











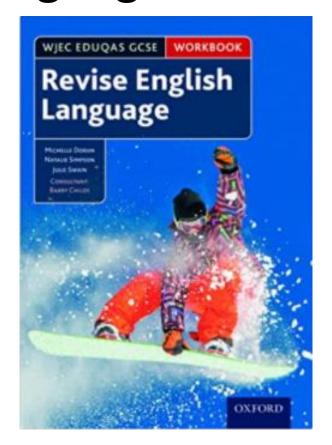
Revising for literature isn't about writing lots of essays...

At home, students can revise by:

- creating mindmaps, timelines and knowledge organisers for each literature text (they need to know characters and themes).
- re-reading key sections of each text.
- completing knowledge recall tests (there are lots on SAM Learning and GCSEPod).
- picking out key extracts for different characters and themes and practise analysing them so that they're developing analysis skills AND learning quotes at the same time.
- practising planning a wide variety of essay questions they don't need to be writing an essay for every essay plan.
- read different types of poetry and practise the skill of comparison.
- practise essay planning for poetry comparison, as well as writing some complete essays.



All students have these to support them with their language revision:



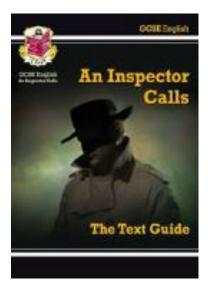
Literature: £2.85

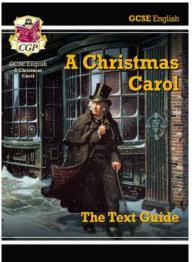
Revision books

Language: £5.50

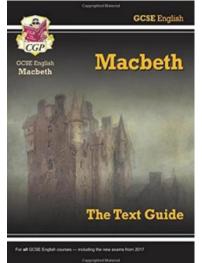
- We have revision guides for both GCSEs.
- The school library also has a section of revision books that

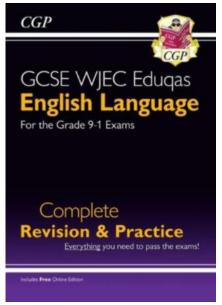
students can use











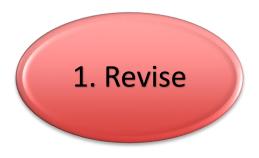


GCSE maths revision



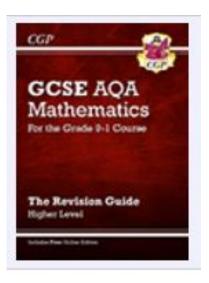
How can you help someone to prepare for a maths exam?

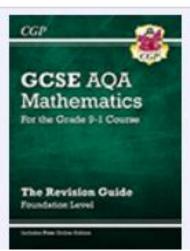




Revision Guide and Websites.

1. Revise





Revision Guide £2.85

Two Levels; Foundation or Higher.

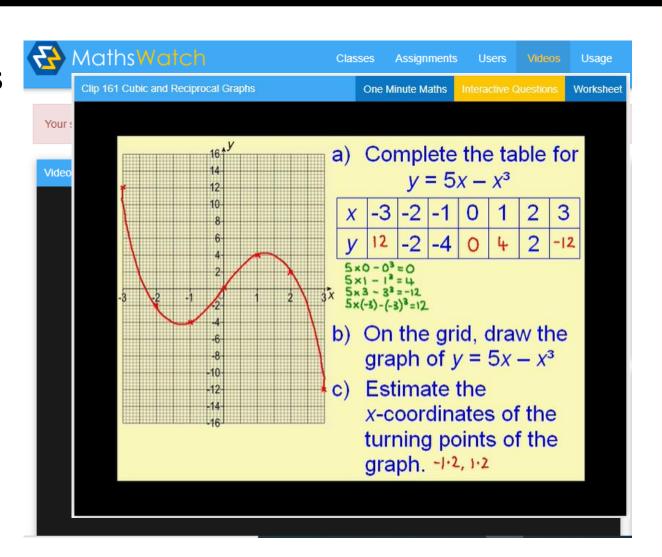


Our Preferred Maths Revision Website

www.mathswatch.co.uk

All the maths teachers at Soar Valley will use this site to tailor work for your revision.

Make sure you know how To access this site.





Other Maths Revision sites



www.mymaths.co.uk

Username: soarvalley

Password: enjoy







Bitesize, samlearning, gcsepod, Corbettmaths, youtube,

2. Review

Students should reflect on all the revision work they do.

They should:

Mark, correct and make a record of topics they find difficult.

These can be reviewed using MathsWatch or with the help of maths teachers.



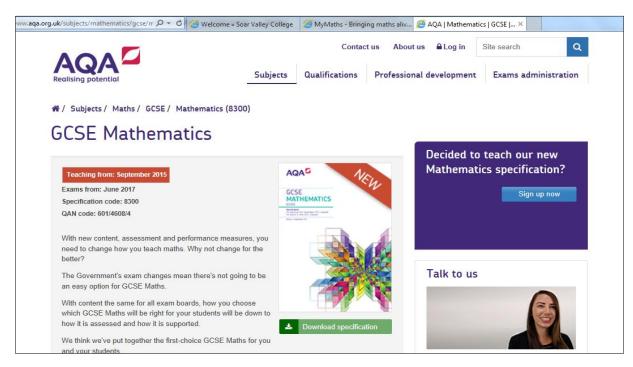
3. Rehearse

From January maths teachers will provide past papers to complete.

These are **ESSENTIAL** preparation for the GCSE!!

3. Rehearse

Our chosen exam board and syllabus is AQA GCSE Mathematics Code 8300



It has a comprehensive website with useful resources including Past Exam Papers.

Maths Genie is also another website for past papers

model answers included

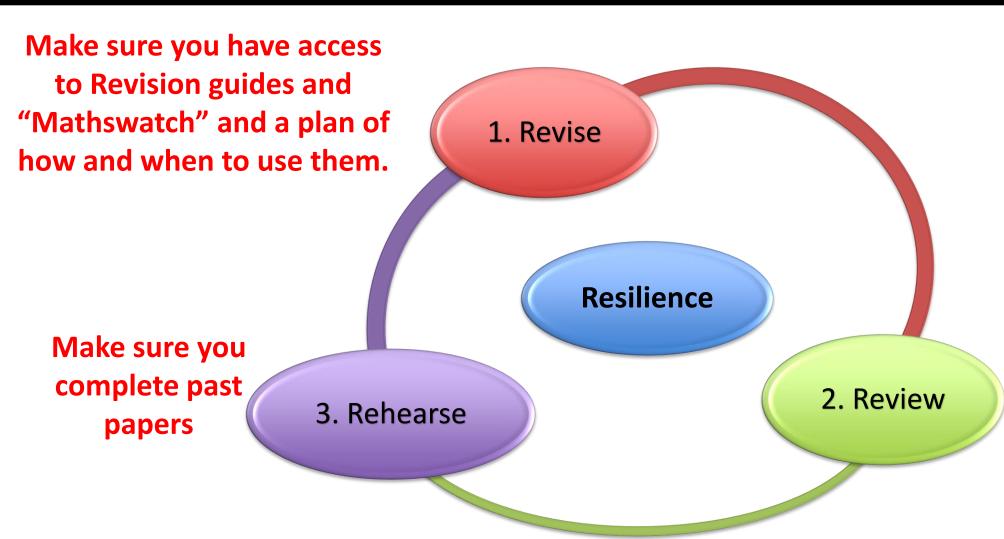
www.aqa.org.uk/maths/gcse



Revision for maths takes TIME

Mistakes are part of revising and help students to progress.

Encourage regular practice



Make sure all the work is marked and there is a list of the topics you would like to improve. Make sure you review your "mock exams".

GCSE Science

Information for Parents

GCSE Science Course



The Exams

Six papers:

2 Biology

2 Chemistry

2 Physics

Duration:

All exam papers are 1 hour and 15 minutes. Triple science 1 hour 45 minutes



Revising Science

















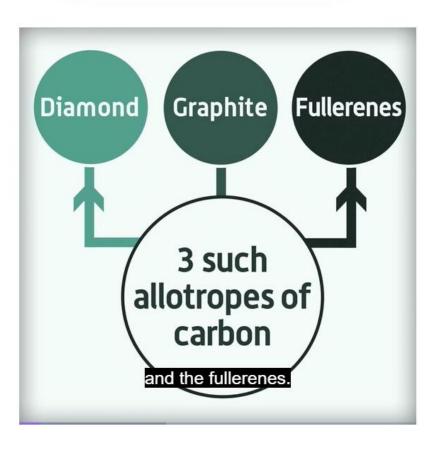


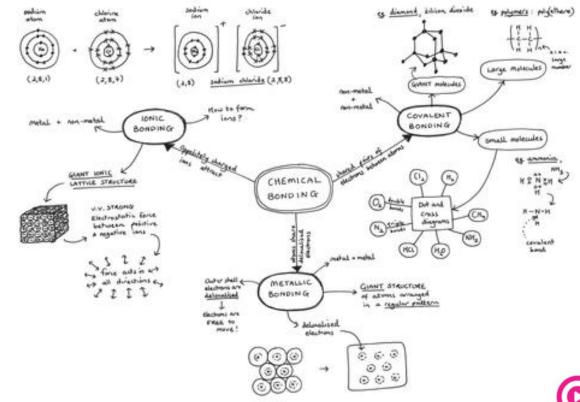
- Workbooks
- Knowledge organisers



Revision strategy









A SPECIALIST MATHS AND COMPUTING COLLEGE

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Knowledge: The key subject specific content. Use the checklists which will be given out to students

Retrieval: Self testing, checking that they know where the gaps are

Practice: Regular application of the knowledge to exam questions



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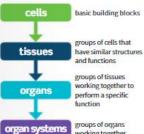




B4

B4 Organisation in animals





working together

organisms

When breathing in, air moves

1 into the body through the

4 through the bronchioles

5 into the alveoli (air sacs)

Oxygen then diffuses into the blood in the network of capillaries over the

mouth and nose

2 down the trachea

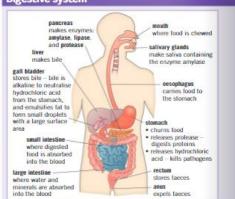
3 into the bronchi

surface of the alveoli.

Lungs

working together

Digestive system



oxygenated 1

pulmonary

blood out

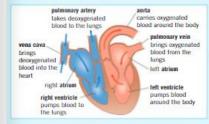
Blood vessels

The structure of each blood vessel relates to its function

Vessel	Function	Structure	Diagram
artery	carries blood away from the heart under high pressure	thick, muscular, and elastic walls the walls can stretch and withstand high pressure small lumen	thick small lumen thick layer of musc and elastic fibres
vein	carries blood to the heart under low pressure	have valves to stop blood flowing the wrong way thin walls large lumen	relatively thin wall large lumen often has valves
capillary	carries blood to tissues and cells connects arteries and veins	one-cell-thick – short diffusion distance for substances to move between the blood and tissues (e.g., oxygen into cells and carbon dioxide out) very narrow lumen	wall one tâny vessel with narrow lumen

The heart

The heart is the organ that pumps blood around your body. It is made from cardiac muscle tissue, which is supplied with oxygen by the coronary artery.

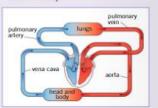


that generate electrical impulses, acting as a pacemaker.

Double circulatory system

The human circulatory system is described as a double circulatory system because blood passes through the heart twice for every circuit around the body:

- · the right ventricle pumps blood to the lungs where gas exchange takes place
- the left ventricle pumps blood around the rest of the body.



Heart rate is controlled by a group of cells in the right atrium Artificial pacemakers can be used to control irregular heartbeats.

Start with a fixed volume of dilute sulfuric acid. This is our limiting reactant.

Knowledge:

1. Use the subject specific revision guides

MyGCSE Science great for practical work

capillaries over the surface of

The circulatory system

- red blood cells bind to oxygen and transport it around the body plasma - transports substances and blood cells around the body
- platelets form blood clots to create barriers to infections
- white blood cells part of the immune system to defend the body against pathogens

deoxygenated blood in

branch of

pulmonary

Make sure you can write a definition for these key terms.

alveoli amylase aorta artery atrium bronchi bronchiole capillary cardiac muscle coronary artery double circulatory system lipase organ organ system plasma platelet protease pulmonary artery pulmonary vein tissue vein vena cava ventricle





B4 Organisation in animals

fixed volume of

dilute sulfuric acid



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Learn the answers to the questions below, then cover the answers column with a piece of paper and write as many as you can. Check and repeat.

В4	a	ue	S	tı	0	n	S	
ALESNE.	68.	3540			7	8	74	

6 Name three enzymes produced in the pancreas

What is the function of platelets?

double circulatory system?

How does the structure of an artery relate to its

How does the structure of a vein relate to its

Answers

Name the five levels of organisation in living cells → tissues → organs → organ systems → organisms 2 What is a tissue? a group of cells with similar structures and functions a group of tissues working together to perform a What is an organ? specific function

neutralise hydrochloric acid from the stomach and What is the function of bile in digestion? emulsify fat to form small droplets with a large surface

lubrication to help swallowing - contains amylase to 5 What is the function of saliva in digestion? break down starch

amylase, protease, lipase

Name the four main components of blood. red blood cells, white blood cells, plasma, platelets

> form blood clots - prevent the loss of blood and stop wounds becoming infected

 Name the substances transported in the blood hormones, proteins, urea, carbon dioxide, glucose

blood passes through the heart twice for every circuit Why is the human circulatory system described as a around the body - deoxygenated blood is pumped from the right side of the heart to the lungs, and the oxygenated blood that returns from the lungs is pumped from the left side of the heart to the body

> carries blood away from the heart under high pressure - has a small lumen and thick, elasticated walls that can stretch

carries blood back to the heart at low pressure doesn't need thick, elasticated walls, but has valves to prevent blood flowing the wrong way

How does the structure of a capillary relate to its carries blood to cells and tissues - has a one-cell-thick wall to provide a short diffusion distance

List the structures air passes through when mouth/nose → trachea → bronchi → bronchioles → Now go back and use the guestions below to check your knowledge

Previous questions

Answers

What is the purpose of active transport in the small

2 What is therapeutic cloning?

What is a stem cell?

Give one disadvantage of using plant meristems to

What is active transport?

sugars can be absorbed when the concentration of the sugar in the small intestine is lower than the concentration of the sugar in the blood

patient's cells are used to create an early embryo clone of themselves - stem cells from the embryo can then be used to treat the patient's medical conditions undifferentiated cell that can differentiate into one or more specialised cell types

no genetic variation, so, for example, an entire cloned crop could be destroyed by a disease

movement of particles against a concentration gradient - from a dilute solution to a more concentrated solution - using energy from respiration



Required practical skills

Practise answering questions on the required practicals using the example below. You need to be able to apply your skills and knowledge to other practicals too.

to test for different

compounds found in food:

There are different ways

A student wanted to test a sample for the presence of protein using Biuret reagent. Write a risk assessment for this activity.

- ethanol test for lipids (fats) - colour change from colourless to
- cloudy white if present Benedict's test for sugars - colour change from blue to red if present
- iodine test for starch (carbohydrates) colour change from brown to blue-black if present
- Biuret reagent test for protein - colour change from blue to purple if present.

You need to be able to identify and describe the correct method, and results, for each test.

Worked example

- 1 Write down general safety practices in labs: wear goggles to protect your eyes
- wash hands at the end of the practical · clear up any spills quickly
- · do not eat any of the food. 2 Write down what things could hurt you in the practical, and how they could hurt you:
- Biuret reagent irritant glass can break
 - pipette can poke you in the eyes. 3 Write down how you can prevent these
- wash hands after touching Biuret reagent, and if it is ingested or it gets into the eyes inform a teacher immediately
- If glass is broken inform a teacher immediately point pipettes downwards.

Practice

1 A student picked up solution A and added it to a sample of food, Solution A was blue and turned purple after adding it to the food.

> Name solution A and identify the food type present in the sample.

Benedict's test for sugar requires the solution to be heated. One way to do this is by heating the test tube in a beaker of water using a Bunsen burner.

Give an alternative method of heating the solution.

3 When testing a sample for protein in a test tube, a student found that the top of the sample tested positive whereas the bottom did not.

Give a reason for this result.

Retrieval

What can they remember without prompts?



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Paper 1

Read the question carefully,

part of the graph not all of it.

01.5 only refers to the first

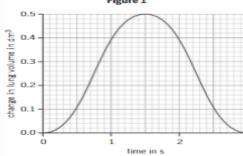
Exam Tip

Exam-style questions

An athlete's lung volume was measured over a period of time. The data for one respiratory cycle is shown in Figure 1,







Describe how the athlete's lung volume changes over the threesecond period shown. [2 marks]

Use Figure 1 to determine the volume of air taken in when the athlete inhales.

dm³

The athlete's total lung volume before inhalation was 5.00 dm3. Calculate their total lung volume after inhalation.

dm³

Calculate how many respiratory cycles will take place in 60 s.

[3 marks]

cycles

For this question you need to use the data and describe the shape of the line and how it changes.

01.5	Select which of the following changes take place in t	the athlete's
	chest cavity between 0 and 1.5 s.	[2 marks]

Tick two boxes.

rib cage moves in and down

rib cage moves up and out

diaphragm contracts and moves down

diaphragm relaxes and moves up

A student carried out a number of food tests on an unknown sample. Their results are shown in Table 1,

Table 1

Nutrient tested for	Reagent used	Result
starch	Y	yellow-orange
sugar	Benedict's solution	blue
protein	Biuret reagent	purple
X	ethanol	cloudy white layer formed





A reagent is a chemical or solution that is used in a practical.

- Identify nutrient X that is detected by adding ethanol to the food sample. [1 mark]
- Identify reagent Y that is used to test a food sample for starch. [1 mark]

Biuret reagent is corrosive.

Suggest one safety precaution that the student should have taken when using Biuret reagent. [1 mark]

[3 marks]

The student thought that the food sample contained starch, sugar and protein. Is the student correct?

> Circle one answer for each of the statements below. The food sample contains starch. The food sample contains sugar. по

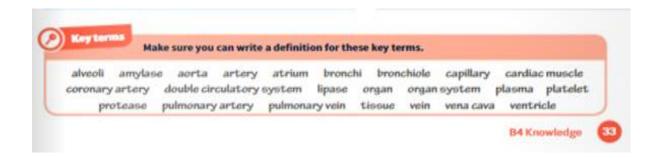
The food sample contains protein. ves Exam Tip

Make sure your suggestion is related to the practical.

по

Scientific language

Over 3700 subject specific words students should be able to define.



 Working scientifically vocabulary such as variables, accuracy, reliable, conclusion, precision, evaluation etc.

Command words

Command words are the words and phrases used in exams that tell students how they should answer a question.

Most common: Describe, Explain, Compare, Define, Evaluate, Justify, suggest......



*		Mallan	
4.	Soa	r valley	College
(3 T)	A \$ (f)	Describe the pr	ocess of evoluti

Describe the	process of	of evolution	by which	some	plants	survive	in fields	where	animals	eat
the plants.	•		-		•					

 Response requires one of these 3:	
Statement of facts	
 Statement of observations	
 Outlining a process 	

(b) Scientists have genetically engineered a variety of wheat to be resistant to herbicides.

The herbicide resistant variety of wheat will give a higher yield than the non-herbicide resistant variety.

Explain wry.	
	Response requires:
	 Giving reasons how or why something has happened
	Giving reasons how or why 2 factors are related
	Giving reasons how or why a process works