



# KS4 Revision Evening



“The bad news is that from now onwards time flies, the good news is you’re the pilot!”

# Presentations...

Mr Hyett – Assistant Headteacher

Mrs G Higgins – Faculty Lead English and Media

Mr B Robinson – Head of KS4 Maths

Mr M Hart – Faculty Lead Science

# Revision

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GCSE grades are important as they are the keys to unlock the next stage of your life.

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More than anything you want to go onto something that you **choose** to do.

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When you open your exam results in the summer you don't want to have any regrets – you know that you tried your very best.

TIME + EFFORT =  
**SUCCESS**

# Reflection

How do you currently feel about revision for your GCSEs?

- Have you started or are you putting it off?
- Do you know what to do?
- Have you got a plan in place?

# Why it's important to revise:

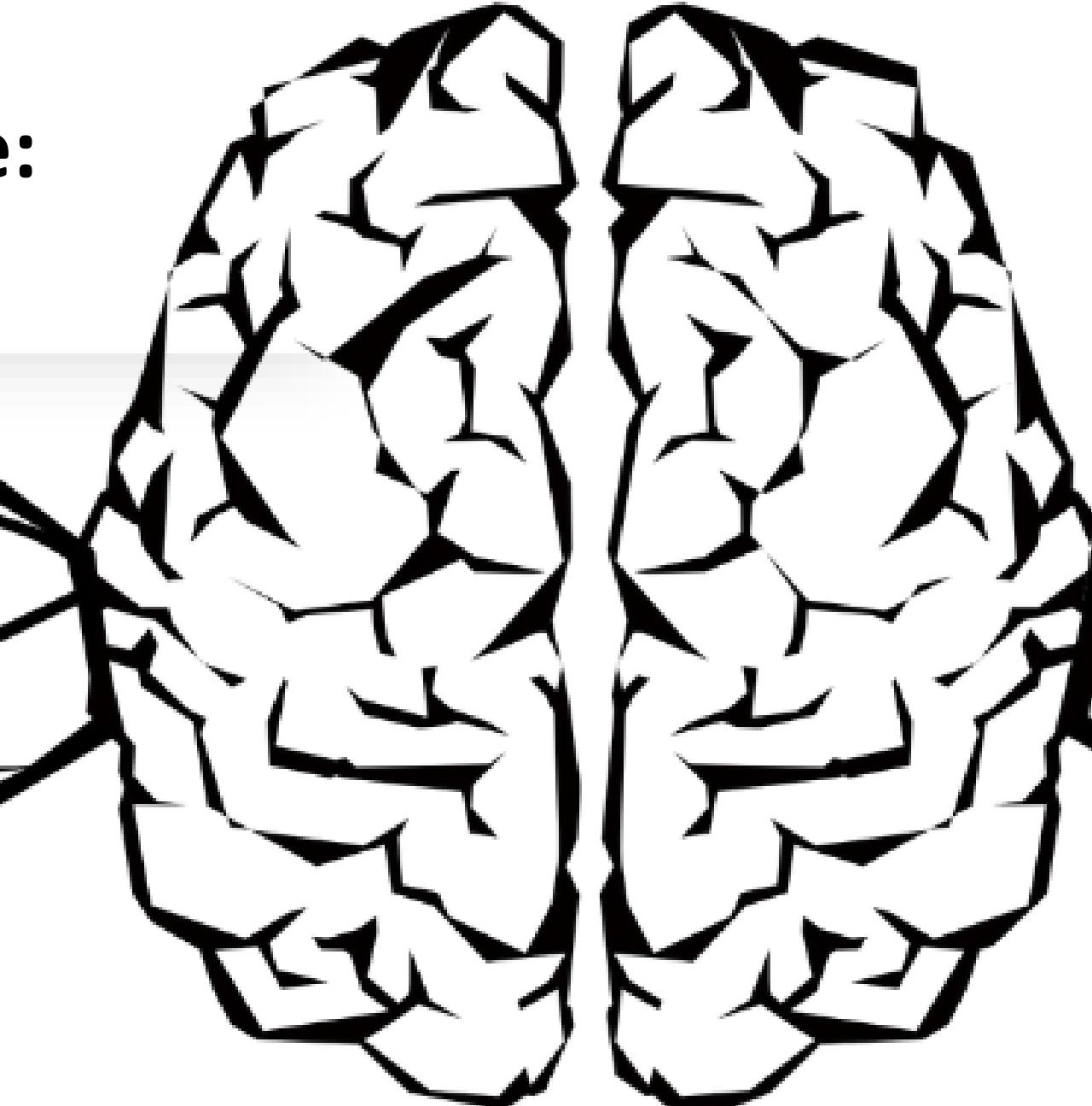
Learning is hard work! But it's definitely possible!

Think about the things you know off-by-heart; the lyrics to songs from a few years ago, the words to your favourite films.

You generally remember these things because

- (a) you enjoyed them and
- (b) you listened to or watched them lots of times.

But, since you were born, you have learned and understood millions of pieces of information that you will know for the rest of your life.



## KEY POINTS:



- Revision should be 'little and often'.
- Revisiting things you find difficult or have got wrong in the past, at regular intervals, is vital. Over time, as you understand a little more, the work gets easier and you learn more. You start to make links between topics and ideas, and it becomes easier still.
- But beware – it's tempting to spend time revising stuff you already know but **progress is made by revising things we don't know!**

# Planning your revision:

To get the most out of your revision you must plan it! If not, it's too tempting to pick up something comfortable and easy and learn very little.

**You need to plan:**

- ⌚ **When you are going to revise?** (what times are best for you? How long is reasonable? 20-30mins at a time is best)
- ⌚ **Where you are going to revise?** (have you got a space of your own? Are your phone and other distractions away while you're revising?)
- ⌚ **What you are going to revise?** (have you planned exactly what you want to learn in this chunk of time? Which question do you want to be able to answer?)
- ⌚ **When and how you're going to relax?** (this is just as important. You need to eat and drink well and plan time with friends and family. **You won't work well if you don't relax well**).



Hr	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9:00 AM							
	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
10:00 AM							
	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
11:00 AM							
	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK	BREAK
1:00 PM						FREE	FREE
	BREAK	BREAK	BREAK	BREAK	BREAK	FREE	FREE
2:00 PM							
	BREAK	BREAK	BREAK	BREAK	BREAK	FREE	FREE
3:00 PM							
4:00 PM	Review	Review	Review	Review	FREE	FREE	FREE

Use different colours for different topics . Remember to keep reviewing what you have revised and testing yourself at the end of the day, the next day and the end of the week - this will help you to recall the information in the exam.

# How effective are strategies?

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**Summarising** - writing summaries of texts - **LOW**

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**Highlighting/underlining** - **LOW**

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**Imagery** - forming mental pictures while reading or listening - **LOW**

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**Re-reading** - **LOW**

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**Interleaved practice** - switching between different kinds of problems - **MODERATE**

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**Self-explanation** - how a problem was solved - **MODERATE**

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**Practice testing** - Self-testing to check knowledge - especially using flash cards - **HIGH**

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**Distributed practice** - spreading out study over time - **HIGH**

# Recommended techniques:

## Quizzing

Good old fashioned quizzing is an ideal vehicle to get students self-testing, which is proven to be a robust revision strategy, so that students can calibrate their knowledge and remembering. There are various types of quizzes, of course, such as short answer quizzing, multiple choice or a hybrid of the two, with different question types suiting different purposes.

## Flashcards

Flashcards are a very familiar tool used by students. Crucially, however, too many students fail to use them for effective self-testing.

Write a question on the front of a card and the answer/s on the back and test yourself.

Students should beware dropping flashcards they think they know!

## **Past questions**

Students need to practice examination questions over and over, well spaced over time. The effect of exploring worked examples or exam answers, as well as writing their own, helps students process and refine their revision for exam success.

# Resources:



https://www.taverhamhigh.norfolk.sch.uk/home/students/revision/

HOME / STUDENTS / REVISION IN THIS SECTION

## REVISION

- [GCSE revision guide](#) 
- [How to revise for A-levels](#) 
- [Y13 revision evening presentation](#) 
- [KS4 revision evening presentation](#) 
- [Y10 Welcome Event](#) 
- [Revision skills](#) 
- [Skills mastery](#) 
- [Supporting Your Child](#) 

- [Leaders](#)
- [Uniform](#)
- [Examination Information](#)
- [Future Pathways](#)
- [Revision](#)
- [Canteen](#)
- [Results Day](#)





# REVISION



ON  
TOY FOR  
Y&P

## YEAR 11 REVISION & INTERVENTION – STUDENT GUIDE

Subject	When	Where	What it's for
 <b>Computer Science</b>	Wed lunchtime	TBC	 Extra help & revision
 <b>D&amp;T / Engineering</b>	Thurs 3–4pm	D Block	 NEA support (until Easter)
 <b>Drama</b>	Tues lunch & 3–4pm	PA4	 NEA support
 <b>Art</b>	Thurs 3–4pm	F9	 Coursework support
 <b>Art Drop-In</b>	Fri after school	Drop-in	 ESA / coursework
 <b>German</b>	Tues 3–4pm	F5 / F3	 Revision
 <b>German Speaking</b>	Tues–Thurs lunch	F5 / F2	 Speaking practice
 <b>Classics</b>	Thurs lunch	F11	 Revision
 <b>Music</b>	Mon lunch	PA2	 Coursework / practice
 <b>Music</b>	Fri after school	PA1	 Coursework clinic
 <b>Philosophy &amp; Ethics</b>	Tues 3:05–4pm	G14	 Content revision
 <b>Philosophy Skills</b>	Thurs Week 1 (FT)	G14	 Skills workshop
 <b>Philosophy Skills</b>	Wed Week 2 (FT)	G14	 Skills workshop
 <b>Physics</b>	Tues Week 2, 3–4pm	S2	 Help with tricky topics
 <b>Science</b>	Fri Week 1, 3–3:45pm	S1 / Online	 Revision support
 <b>Biology</b>	Thurs Week 2 3–4pm	S9	 Revision support drop in
 <b>Chemistry (Separate)</b>	By arrangement	Online	 Teams resources
 <b>Maths (All Levels)</b>	Wed 3–4pm	G1	 Open revision
 <b>Maths (Foundation)</b>	Thurs lunch	G1	 Homework help
 <b>History – Cold War</b>	Wed after school	F12	 Exam skills
 <b>History – Cold War</b>	Fri after school	F8	 Revision skills
 <b>History – Cold War / Henry VIII</b>	Wed after school	F12	 Open (from March)
 <b>History – Germany</b>	Tues lunch	F7	 Open (from March)
 <b>Dance (A, B, C)</b>	Mon form time	Atrium	 Practical
 <b>Dance (A, B)</b>	Tues lunch	TBC	 Starts after Easter
 <b>Spanish</b>	Thurs after school	F2	 Starts after mocks

# Revision



88 DAYS TO START OF GCSES



SHORT TERM SACRIFICE –  
LONG SUMMER – GATE WAY  
TO SUCCESS



GET STARTED QUICKLY-  
DON'T KID YOURSELF



BALANCE- REMEMBER HALF  
TERMS AND EASTER



20 MINUTE CHUNKS ON A  
TOPIC – TEST YOURSELF ON  
PREVIOUS ONE



BE SYSTEMATIC GET A COPY  
OF THE SPEC AND RAG RATE  
IT – START WITH THE RED  
AND COME BACK TO IT.



WE ARE ALL DIFFERENT BUT  
WOULD START WITH 30  
MINUTES A NIGHT BUT BE  
REALISTIC WHEN YOU WILL  
STUDY – GRADUALLY BUILD  
YOUR TIME UP

# How can pupils revise for their English GCSEs?

Mrs Higgins

Head of Faculty – English and Media

# English Department

## Year 11 Revision Evening



No tiered entry



English Literature		English Language	
<b>40%</b>	<b>Paper 1</b>	<b>60%</b>	<b>Paper 2</b>
<b>Shakespeare &amp; The 19th Century Novel</b>	<b>Modern Texts &amp; Poetry</b>	<b>Explorations in Creative Reading and Writing</b>	<b>Writers' Viewpoints and Perspectives</b>
- Macbeth - A Christmas Carol / Jekyll and Hyde	- An Inspector Calls - Power & Conflict - Unseen Poetry	Fiction Text	Non-Fiction Texts
<b>1hr 45 mins</b>	<b>2hr 15 mins</b>	<b>1hr 45 mins</b>	<b>1hr 45 mins</b>
<b>11<sup>th</sup> May (AM)</b>	<b>19<sup>th</sup> May (AM)</b>	<b>21<sup>st</sup> May (AM)</b>	<b>5<sup>th</sup> June (AM)</b>

### English Language

#### Paper 1

#### Explorations in Creative Reading and Writing Fiction

1hr 45 mins

Section A	Reading
Q1	Comprehension
Q2	Language analysis
Q3	Structure analysis
Q4	Evaluation
Section B	Writing
Q5	Description or Narrative

#### Paper 2

#### Writers' Viewpoints and Perspectives Non-Fiction

1hr 45 mins

Section A	Reading
Q1	Comprehension
Q2	Comparative Summary
Q3	Language analysis
Q4	Comparing writers Viewpoints and Perspectives
Section B	Writing
Q5	Opinion Writing

Comparative  
paper with 2  
sources to read

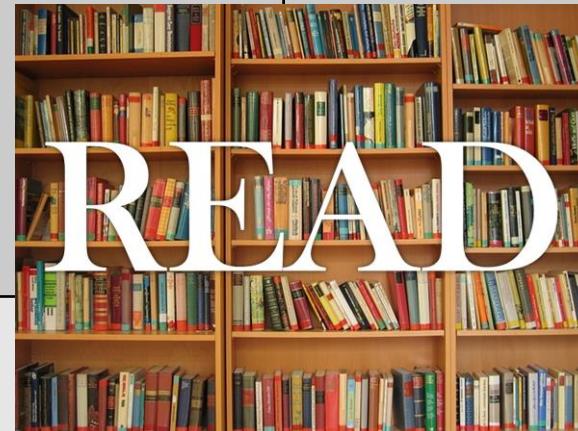
### English Language – How can I revise?

#### Paper 1

- Novel extracts
- Short stories

Focus on openings,  
endings, descriptive  
parts, settings, and  
characters.

**C20th or  
C21st**



#### Paper 2

- Letters
- Journals
- Diary entries
- Speeches
- Articles
- Travel writing

# English Department

## Year 11 Revision Evening



### English Language – How can I revise?

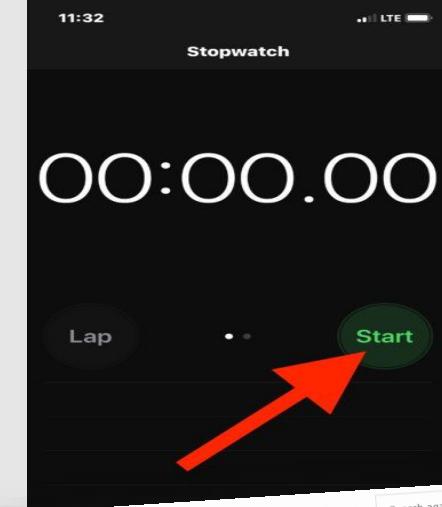
## PAST PAPERS!



Available on the AQA website.

Pupils can ask their English teacher if unsure.

The AQA website page for GCSE English Language Assessment resources. The page shows a search bar, a 'Clear all filters' button, and a 'Resource type (1)' dropdown menu with 'Question papers' selected. Below this, a list of 70 results is shown, with the first few items being 'Insert: Paper 1 Explorations in creative reading and writing - November 2021' and 'Question paper: Paper 2 Writers' viewpoints and perspectives - November 2021'. The page also includes navigation links for 'Subjects', 'Qualifications', 'Professional development', and 'Exams admin'.



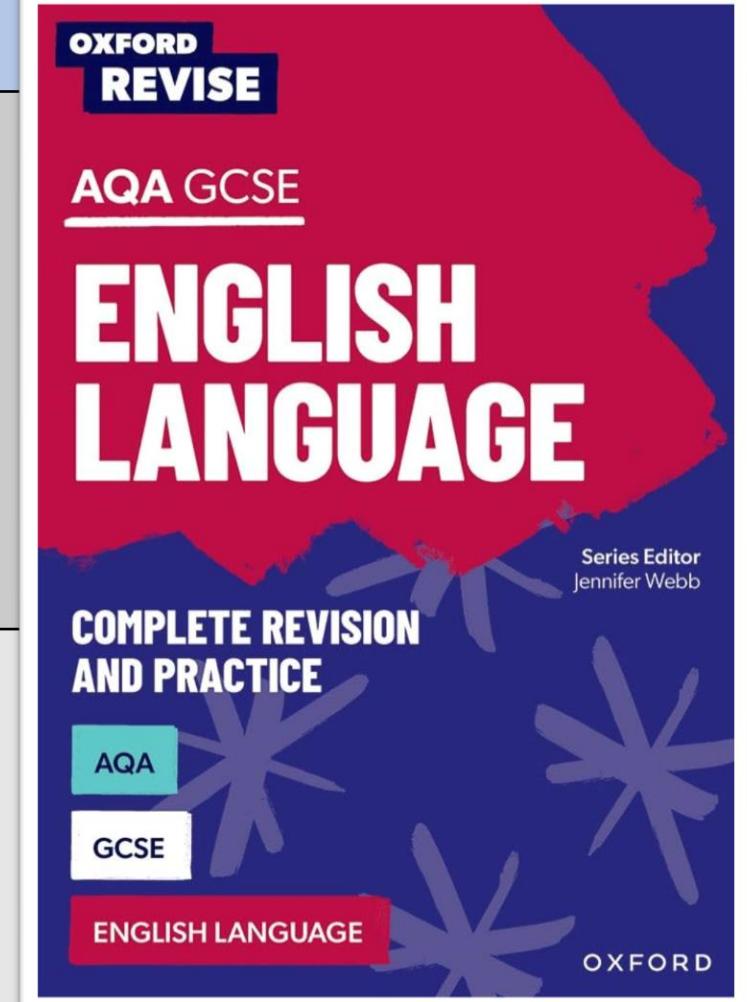
# English Department

## Year 11 Revision Evening



English Language – How can I revise?

# Revision Guide



Click [here](#) for a look inside.

# English Department

## Year 11 Revision Evening



### English Language – How can I revise?

## Websites

[Bitesize](#) has a great range of reading, videos and quizzes on each language paper.



Class teachers can allocate topics to pupils, or they can log in and search for relevant quizzes.

## English Literature

### Paper 1 Shakespeare & The 19th Century Novel

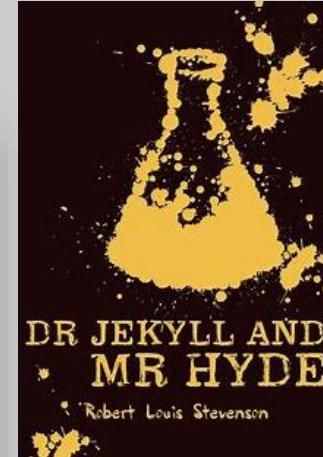
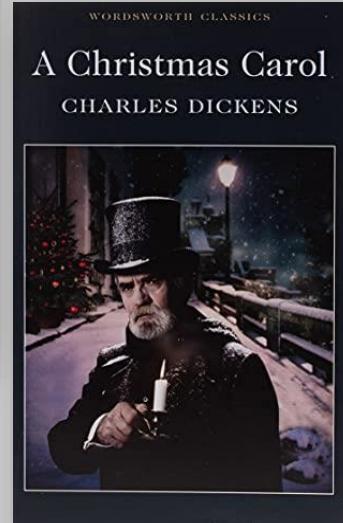
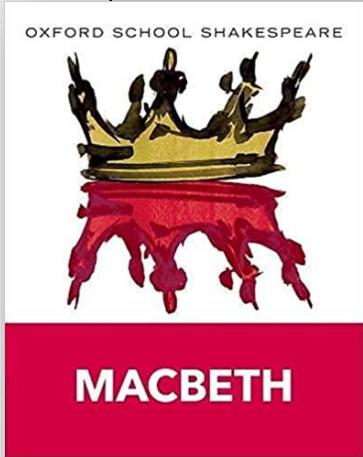
<u>Section A</u>	
Macbeth	Extract based essay question (closed book)
<u>Section B</u>	
A Christmas Carol / Jekyll & Hyde	Extract based essay question (closed book)

### Paper 2 Modern Texts & Poetry

<u>Section A</u>	
An Inspector Calls	Essay question no extract (closed book)
<u>Section B</u>	
Power & Conflict Poetry	Comparative essay question exploring a theme in named poem (provided) and one other (not)
<u>Section C</u>	
Unseen poetry	Essay question on theme (poem provided)
Unseen comparison	Essay comparing 2 unseen poems

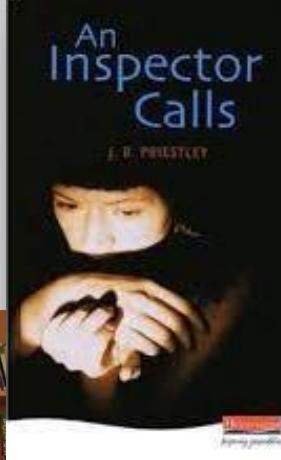
### English Literature – How can I revise?

#### Paper 1

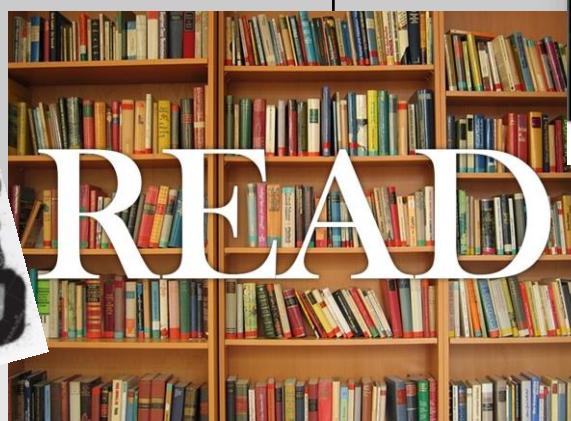


#### Paper 2

- Unseen poems



RE



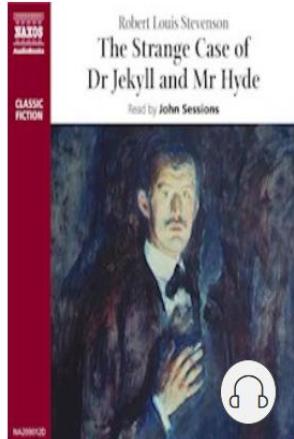
# English Department

## Year 11 Revision Evening

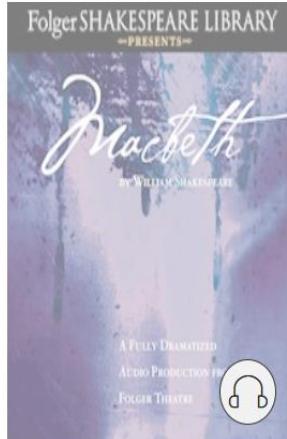


All GCSE Literature texts are available via e-Platform library which can be found on our Portals page of the school website.

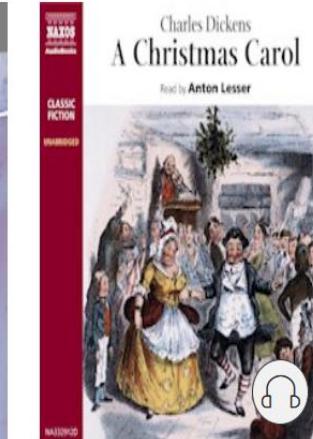
### GCSE Texts



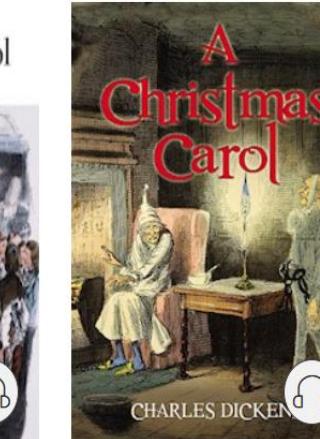
The Strange Case of Dr Jekyll  
by Robert Louis Stevenson



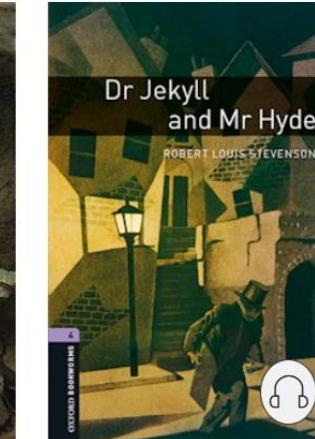
Macbeth: Fully Dramatized /  
by William Shakespeare



A Christmas Carol  
by Charles Dickens



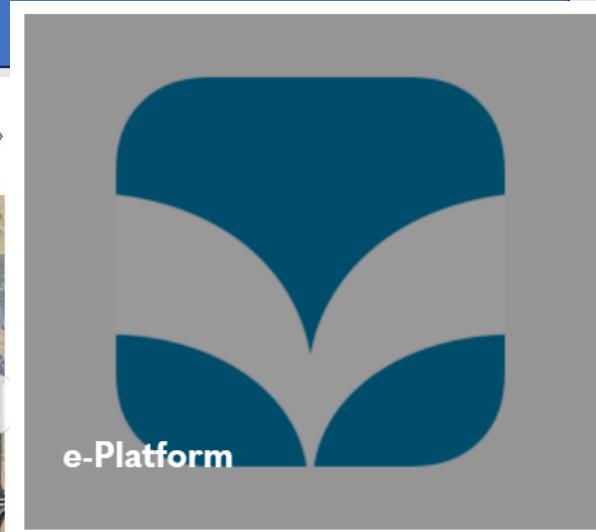
A Christmas Carol  
by Charles Dickens



Dr Jekyll and Mr Hyde  
by Robert Louis Stevenson



A Christmas Carol  
by Charles Dickens



[view more >](#)

# English Department

## Year 11 Revision Evening



### English Literature – How can I revise?

# PAST PAPERS!

AQA  
GCSE  
ENGLISH LITERATURE  
Paper 2 Modern Texts and Poetry

Thursday 23 May 2019      Morning      Time allowed: 2 hours 15 minutes

**Materials**  
For this paper you must have:

- an AQA 16-page answer book.

**Instructions**  

- Use black ink or black ball-point pen. Do not use pencil.
- Write the information required on the front of your answer book. The Paper Reference is 8702/2.
- Answer one question from Section A, one question from Section B and both questions in Section C.
- You must not use a dictionary.

**Information**  

- The marks for questions are shown in brackets.
- The maximum mark for this paper is 96.
- AO4 will be assessed in Section A. There are 4 marks available for AO4 in Section A in addition to 30 marks for answering the question. AO4 assesses the following skills: use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation.
- There are 30 marks for Section B and 32 marks for Section C.

Available on the AQA  
[website](#).

Pupils can ask their  
English teacher if unsure.

AQA Realising potential

Subjects / English / GCSE / English Literature (8702) / Assessment resources

GCSE English Literature 8702

Specification Planning resources Teaching resources Assessment resources Key dates

Assessment resources

Search resources Newest first Page 1 2 Items per page 20

Clear all filters Question papers

Resource type (1)

- Answers and commentaries (1)
- Examiner reports (10)
- Grade descriptors (1)
- Mark schemes (14)
- Notes and guidance (2)
- Question papers

Showing 34 results

Question paper: Paper 1P Poetry anthology - November 2021  
Published 29 Jul 2022 | PDF | 306 KB

Question paper (Modified A4 18pt): Paper 1P Poetry anthology - November 2021  
Published 29 Jul 2022 | PDF | 182 KB

**CAUTION!**  
The 2022 papers were  
structured differently due to  
COVID.

### English Literature – How can I revise?



## Revision Guides

[CGP](#) have a great range at excellent value.

Average cost £5-7 per book.



# English Department

## Year 11 Revision Evening



### English Literature – How can I revise?

## Websites



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Class teachers can allocate topics to pupils, or they can log in and search for relevant quizzes.

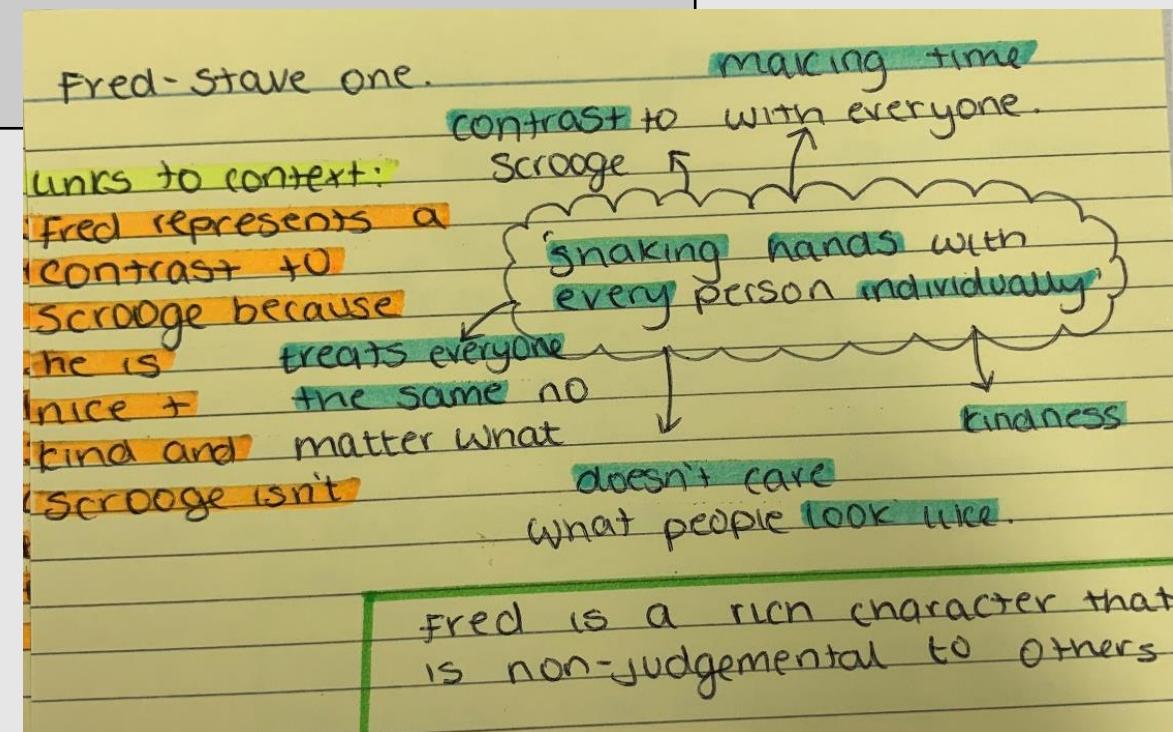


Revision videos on YouTube such as MrBruff:  
<https://www.youtube.com/user/mrbruff>

## English Literature – How can I revise?

# Creating Flashcards

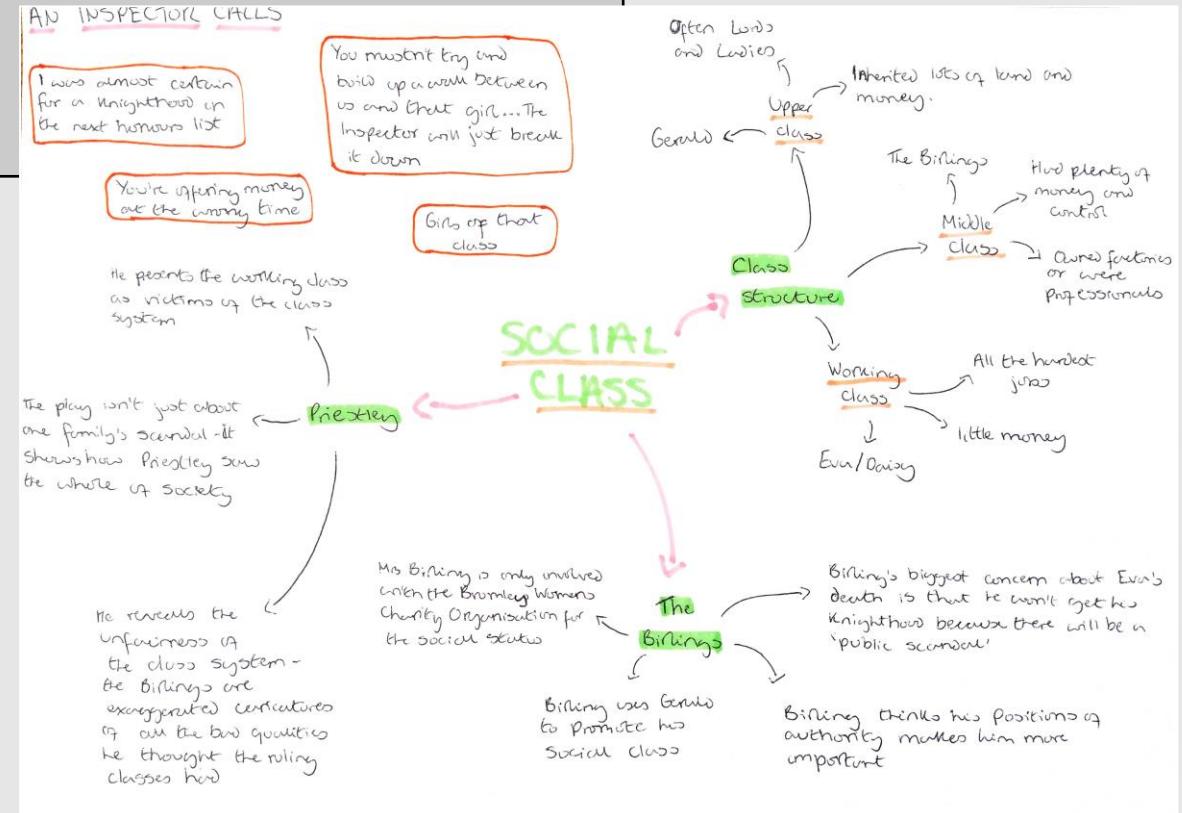
Create flashcards for key terminology and quotations for the Literature texts.



## English Literature – How can I revise?

# Creating Mind-Maps

Create mind-maps for key characters and themes in the Literature texts.



# English Department

## Year 11 Revision Evening

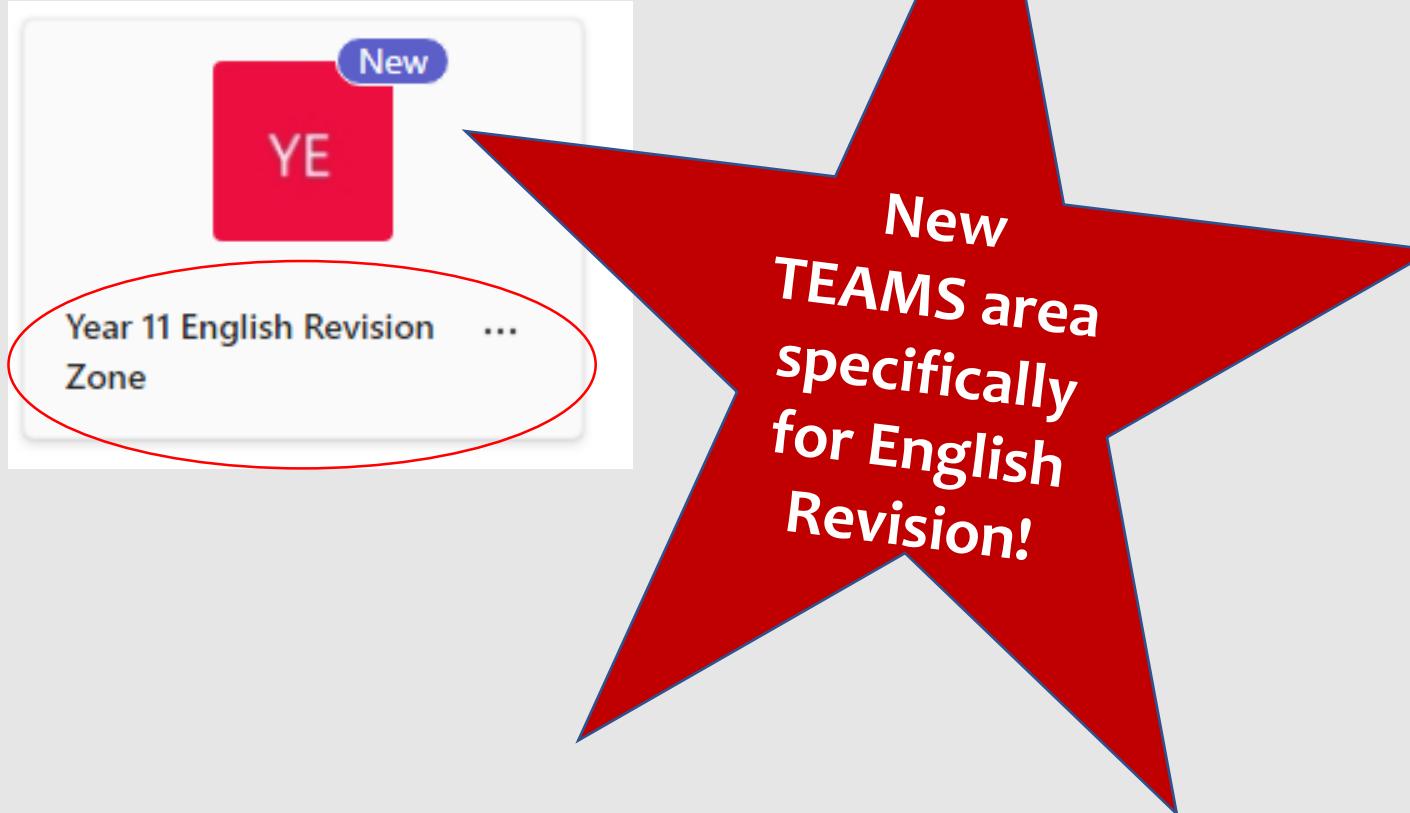


The image shows a screenshot of a SharePoint site. On the left, there is a red button with the letters 'YE' on it. Next to it, the text 'Year 11 English Revision Zone' is displayed. Below this, there are three icons: a document, a person, and a clipboard. In the center, there is a list item for 'Class Materials'. On the right, a detailed view of the 'Class Materials' folder is shown, with a breadcrumb trail 'Documents > General > Class Materials'. The folder contains four items: '2024 Easter Revision Sessions' (pink folder), 'AQA GCSE English Language' (blue folder), 'AQA GCSE English Literature' (yellow folder), and 'EXAM DATES.pptx' (PPTX file icon).

[https://taverhamhighschool.sharepoint.com/:f/s/msteams\\_3db229/EjfQqbz9Uj1KkWBWFIEvl6sB29yq9i423tpz3m1I3TGFOg?e=kOUMke](https://taverhamhighschool.sharepoint.com/:f/s/msteams_3db229/EjfQqbz9Uj1KkWBWFIEvl6sB29yq9i423tpz3m1I3TGFOg?e=kOUMke)

# English Department

## Year 11 Revision Evening



Any further questions, please get in touch:

[g.higgins@taverhamhigh.org](mailto:g.higgins@taverhamhigh.org)  
[m.hollis@taverhamhigh.org](mailto:m.hollis@taverhamhigh.org)

### YouTube:

#### **Mr Bruff -**

<https://www.youtube.com/channel/UCM2vdqz-7e4HAuzhpFuRY8w>

#### **Famous Speeches -**

– watch and analyse Barack Obama, Emma Watson, Maya Angelou, Greta Thunberg, Martin Luther King etc.

#### **Mr Sallis -**

<https://www.youtube.com/@MrSallesTeachesEnglish>

#### **Royal Shakespeare Company -**

<https://www.youtube.com/watch?v=jPa2rKXDQP0&list=PLolOYEplfPsloAacNeATvlaQKIk7Q2lyf>

# Maths GCSE

Mr Robinson, Head of KS4  
Maths

# GCSE - Mathematics

- Exam board AQA
- Foundation Grades 1 – 5
- Higher Grades 4 – 9
- 3 papers each 1 hour 30mins
- Paper 1 Non calculator
- Papers 2 & 3 Calculator allowed



# Changes from Summer 2023.

- There will be between 0 and 4 multiple choice questions in each paper (there used to be 8). They are only worth 1 mark each.
- There will be a formula sheet issued with every exam paper. Familiarise yourself with this before the exam.
- More focus on fewer words and ease of reading. AQA will make sure that they use the minimum words that convey the necessary meaning across all our questions.

GCSE  
MATHEMATICS HIGHER TIER

Formulae Sheet

## Insert

## Perimeter, area and volume

Where  $a$  and  $b$  are the lengths of the parallel sides and  $h$  is their perpendicular separation:

$$\text{Area of a trapezium} = \frac{1}{2} (a + b) h$$

Volume of a prism = area of cross section  $\times$  length

## Quadratic formula

The solution of  $ax^2 + bx + c = 0$  where  $a \neq 0$

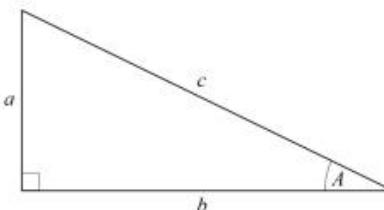
$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Where  $r$  is the radius and  $d$  is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

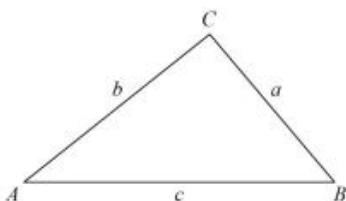
$$\text{Area of a circle} = \pi r^2$$

## Pythagoras' Theorem and Trigonometry



In any right-angled triangle where  $a$ ,  $b$  and  $c$  are the length of the sides and  $c$  is the hypotenuse:

$$a^2 + b^2 = c^2$$



In any right-angled triangle  $ABC$  where  $a$ ,  $b$  and  $c$  are the length of the sides and  $c$  is the hypotenuse:

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

In any triangle  $ABC$  where  $a$ ,  $b$  and  $c$  are the length of the sides:

$$\text{sine rule: } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{cosine rule: } a^2 = b^2 + c^2 - 2bc \cos A$$

$$\text{Area of triangle } = \frac{1}{2} ab \sin C$$

## Compound Interest

Where  $P$  is the principal amount,  $r$  is the interest rate over a given period and  $n$  is number of times that the interest is compounded:

$$\text{Total accrued} = P \left( 1 + \frac{r}{100} \right)^n$$

## Probability

Where  $P(A)$  is the probability of outcome  $A$  and  $P(B)$  is the probability of outcome  $B$ :

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

$$P(A \text{ and } B) = P(A \text{ given } B) P(B)$$

# GCSE MATHEMATICS FOUNDATION TIER

## Formulae Sheet

### Insert

### Perimeter, area and volume

Where  $a$  and  $b$  are the lengths of the parallel sides and  $h$  is their perpendicular separation:

$$\text{Area of a trapezium} = \frac{1}{2} (a + b) h$$

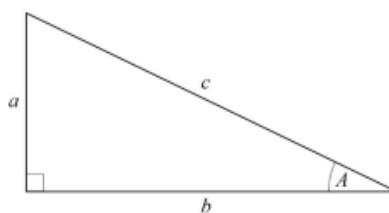
Volume of a prism = area of cross section  $\times$  length

Where  $r$  is the radius and  $d$  is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

$$\text{Area of a circle} = \pi r^2$$

### Pythagoras' Theorem and Trigonometry



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### Probability

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$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

# Additional formulae

- These formulae are embedded within a question where it's required to answer the question:
- Curved surface area of a cone =  $\pi \times r \times l$ ,  
where  $r$  is the radius and  $l$  is the slant height
- Volume of a cone =  $\frac{1}{3} \times \pi \times r^2 \times h$ ,  
where  $r$  is the radius and  $h$  is the perpendicular height
- Volume of a pyramid =  $\frac{1}{3} \times \text{area of base} \times h$ ,  
where  $h$  is the perpendicular height
- Surface area of a sphere =  $4 \times \pi \times r^2$ ,  
where  $r$  is the radius
- Volume of a sphere =  $\frac{4}{3} \times \pi \times r^3$ ,  
where  $r$  is the radius
- Final velocity:  $v = u + a \times t$ ,  $v^2 = u^2 + 2 \times a \times s$   
Displacement:  $s = u \times t + \frac{1}{2} \times a \times t^2$ ,  
where  $a$  is constant acceleration,  $u$  is initial velocity,  $v$  is final velocity,  $s$  is displacement, and  $t$  is time.

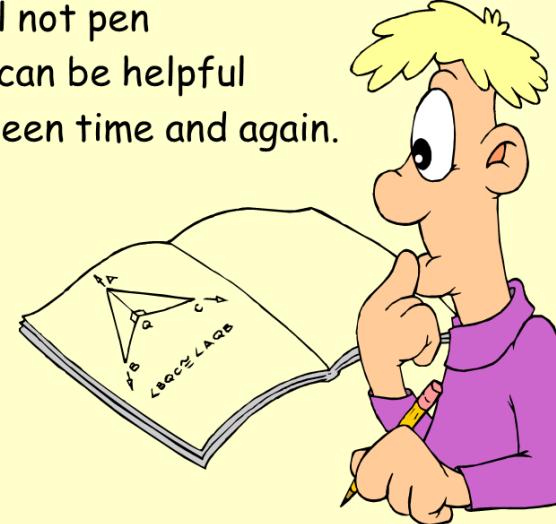
# Additional formulae

- These formulae aren't provided within an exam paper, and it's expected that you know them:
- Area of a rectangle =  $l \times w$ ,  
where  $l$  is the length and  $w$  is the width
- Area of a triangle =  $\frac{1}{2} \times b \times h$ ,  
where  $b$  is the base and  $h$  is the perpendicular height
- Area of a parallelogram =  $b \times h$ ,  
where  $b$  is the base and  $h$  is the perpendicular height
- Volume of a cuboid =  $l \times w \times h$ ,  
where  $l$  is the length,  $w$  is the width and  $h$  is the height
- Volume of a prism = *area of cross section*  $\times l$ ,  
where  $l$  is the length
- Volume of a cylinder =  $\pi \times r^2 \times h$ ,  
where  $r$  is the radius and  $h$  is the height
- Speed = *distance*  $\div$  *time*
- Density = *mass*  $\div$  *volume*
- General form for the equation of a straight line:  $y = mx + c$ ,  
where  $m$  is the gradient,  $c$  is the  $y$ -intercept
- General form for the equation of a circle (Higher tier only):  
$$x^2 + y^2 = r^2$$
, where  $r$  is the radius.

You can earn marks for working  
If your answer is wrong.  
So write down each process  
It won't take too long!



Draw diagrams if needed  
Use pencil not pen  
A sketch can be helpful  
And has been time and again.



This question has three marks  
Available to you  
So make sure your answer  
Has three parts too



(ii) Describe fully the single transformation represented by the matrix  $\begin{pmatrix} 1 & 0 \\ 1 & 1 \end{pmatrix}$ .

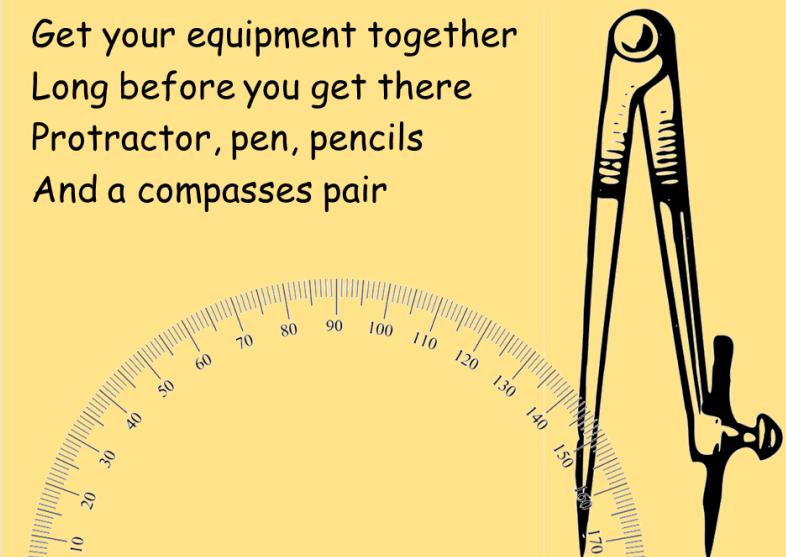
Answer(c)(ii) .....

[3]

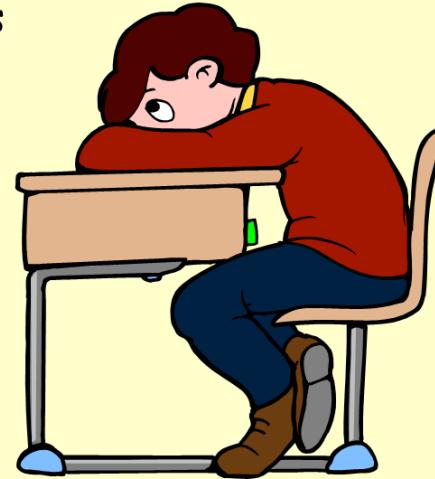
Some questions are real life  
Involving measures and more  
Answers are not just numbers  
Units get the top score



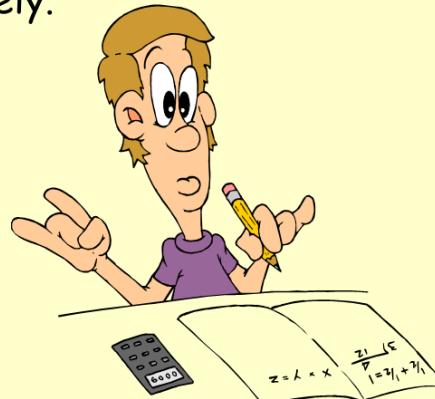
Get your equipment together  
Long before you get there  
Protractor, pen, pencils  
And a compasses pair



You might finish early  
Don't sleep or look around  
Go over your answers  
There could be  
errors to be found



Don't round off your answers  
Too prematurely  
That will lose you some marks  
And confidence surely.



### Top tips for productive Maths revision:

**Practice, practice, practice.** DO actual maths problems. Short, daily practice (15-20 mins) is better than long, infrequent sessions.

**Use Past Papers.** They are crucial for understanding question styles, timings, and identifying weaknesses. Mark them and focus on topics where you lost marks.

**Target weaknesses.** After past papers, make a list of topics you struggled with and revise those specific areas using online resources.

**Learn Formulas.** Use flashcards or posters for key formulas and equations.

# How to approach worded problems



## • Read the question

- Understanding the question and what is being asked before writing any working.

## Start at the beginning

- Begin thinking about how the numbers interact with each other and write down the required calculations.

## Identify key information

- Perhaps by underlining key words or information. Give attention to differing units, as these might need converting.

## Write the units in your calculations

- Avoid confusion about what different numbers represent, possibly adding notes to your work to avoid any confusion.

## Recall any relevant formulae

- That you might need to apply within the question.

## Review your work

- Make sure that your answers make sense in the context offered, and that you have answered all parts of the question. It's easy to forget the goal in multi-step problems.

# Tips for during the exam



## • Read the question

- Take your time to read the question carefully
- Identify key terms to direct your working.

## Use time wisely

- Each mark roughly equates to 1 minute. Aim to spend about 2 minutes on questions worth 2 marks. Use 'banked' time to work through harder questions.

## • Show your working

- Write down all the steps in your work, including work you used a calculator for. Marks can be awarded for correct methods, even if you don't get to the correct answer.

## Take care with writing

- Make sure that your workings and answers are clear. Only cross out work that you don't want to be marked when it has been replaced with new work.

## • Attempt every question

- Write down what you know, even if you don't get the final answer. An educated guess is better than leaving a question blank.

## Check your work

- Make sure that you have answered the question being asked, and that your answer makes sense in context.

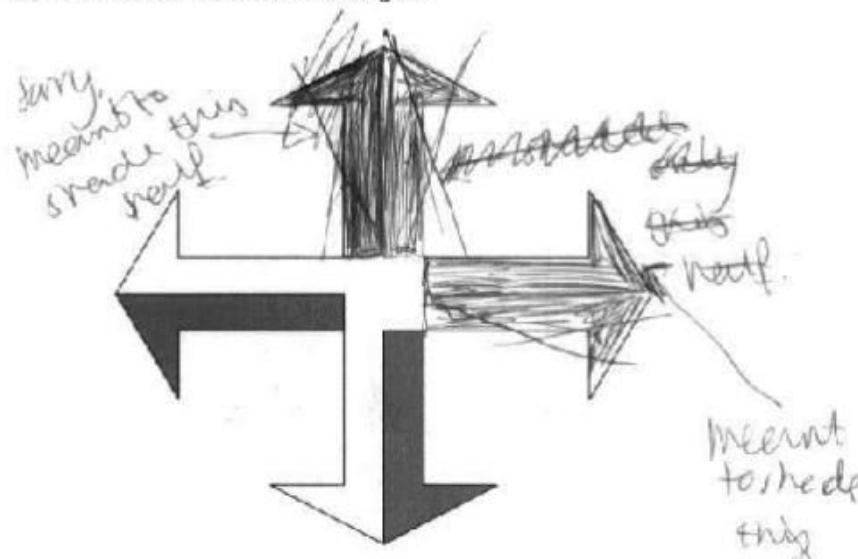
# Insights from the examiners



## Present your work clearly –

‘scruffy’ work is a common cause of lost marks. Draw diagrams in pencil, so you can erase your work if needed

5 (c) Two half-arrows are shaded in this diagram.

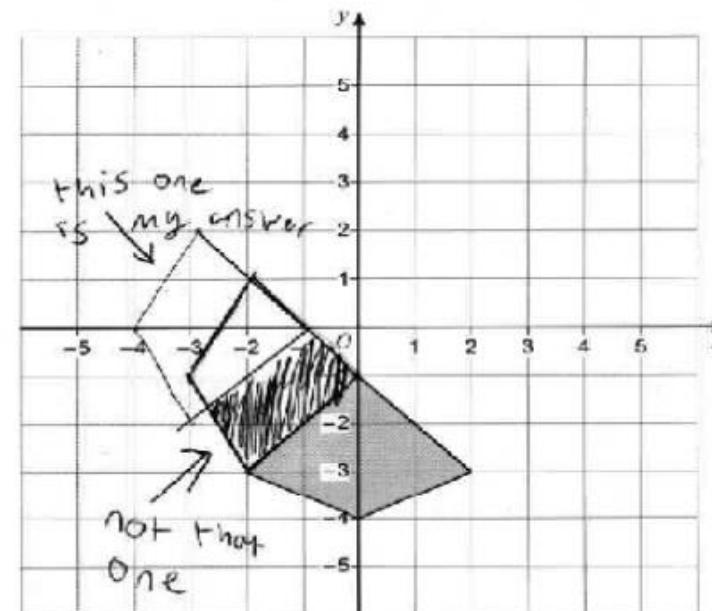


Shade two **more** half-arrows so that the diagram has  
rotational symmetry of order 4

[1 mark]

21 (b) Rotate the kite 90° anticlockwise about (0, 0)

[2 marks]



# Insights from the examiners

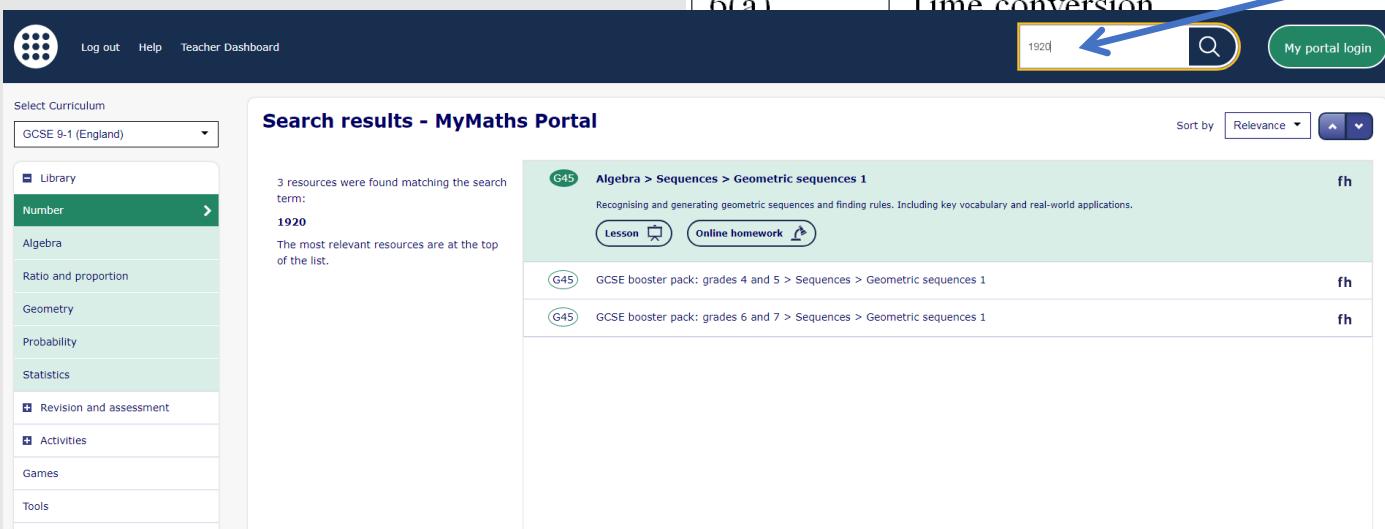


- **Check your work often –**  
Basic calculation errors are common, and you wouldn't normally make them
- **Use a calculator when you can –**  
Marks are often lost through inaccurate calculations in papers 2 and 3
- **Use the formulae sheet –**  
Incorrectly recalling a provided formula will result in marks being lost
- **Begin questions by writing down what you can –**  
Longer questions tend to result in more 'non-attempts', but you could gain some marks by writing down what you know about the question.

- Assessment feedback Sheets

Students should have an assessment feedback sheet stuck in their books after every assessment they sit in Year 10 and 11. This is used to identify problematic topics and areas of weakness which require further practice.

Question	Mathematical Skill	Marks	All	Some	None	Next Steps MyMaths
1	Range	1				1203
2	Place value	1				1931
3	Negative numbers	1				1068,1069
4	Conversion	1				1061
5	Ratio of areas	2				1052
6(a)	Time conversion	2				1123
		2				1123

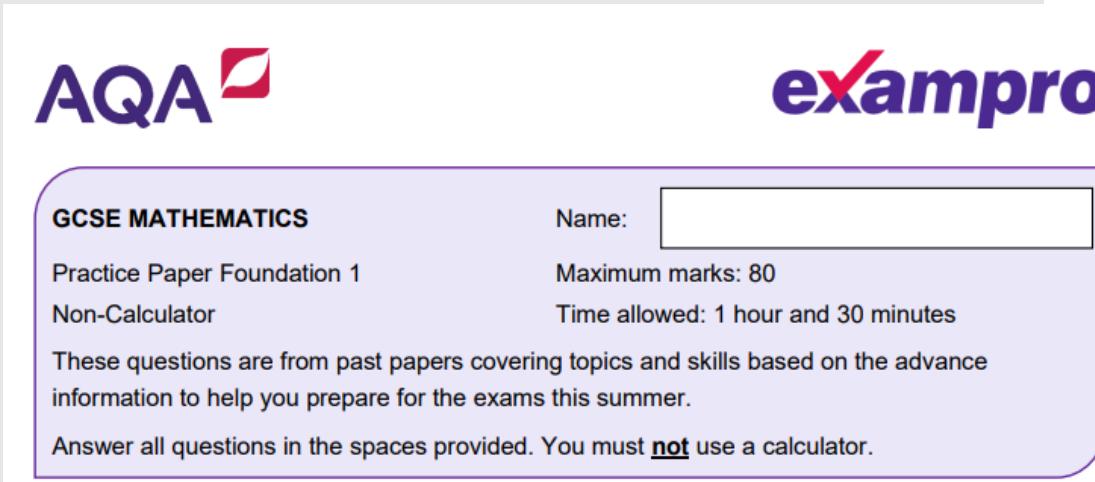


The screenshot shows the 'Search results - MyMaths Portal' page. The search term '1920' is entered in the search bar, and a blue arrow points to the magnifying glass icon. The results list three resources under the heading 'Algebra > Sequences > Geometric sequences 1'. The first result is 'G45 Algebra > Sequences > Geometric sequences 1' with a 'Lesson' and 'Online homework' button. The second and third results are 'G45 GCSE booster pack: grades 4 and 5 > Sequences > Geometric sequences 1' and 'G45 GCSE booster pack: grades 6 and 7 > Sequences > Geometric sequences 1', both with a 'Lesson' button. The sidebar on the left shows the curriculum selection as 'GCSE 9-1 (England)' and a navigation menu with 'Number' selected.

- GCSE Past Papers

Students have access on Teams to GCSE past papers.

Students will also be given a number of past papers by their class teacher.



11 (a) A sequence starts 5 13 21 29

Circle the expression for the  $n$ th term.

$$8 - 3n \quad 8n + 5 \quad 8n - 3 \quad 5n + 8$$

(b) The term-to-term rule for a different sequence is

Multiply the previous term by 2 then subtract 5

The second term in this sequence is  $2x + 7$

The sum of the first three terms is 57

Work out the value of  $x$ .

Answer \_\_\_\_\_

(4)

(Total 5 marks)

# Resources



[Mymaths.co.uk](http://Mymaths.co.uk) (Username : taverham Password : maths)



[CorbettMaths.com](http://CorbettMaths.com) (video demonstrations)



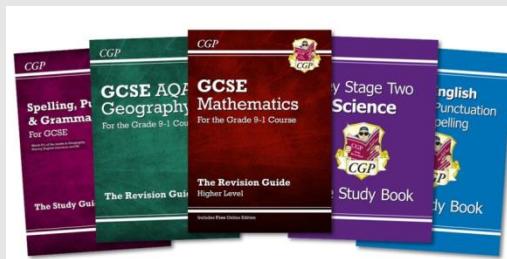
[astarlearning.co.uk](http://astarlearning.co.uk) (video demonstrations)



[mathsgenie.co.uk](http://mathsgenie.co.uk) (graded questions by topic)



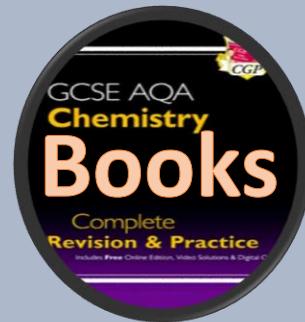
[onmaths.com/revisionator](http://onmaths.com/revisionator) (generates graded questions and marks them)



CPG Revision Guides / Practice Workbook / Revision Cards

# Science Revision

## Top tips



Matthew Hart  
Head of Science Faculty  
[M.hart@taverhamhigh.org](mailto:M.hart@taverhamhigh.org)



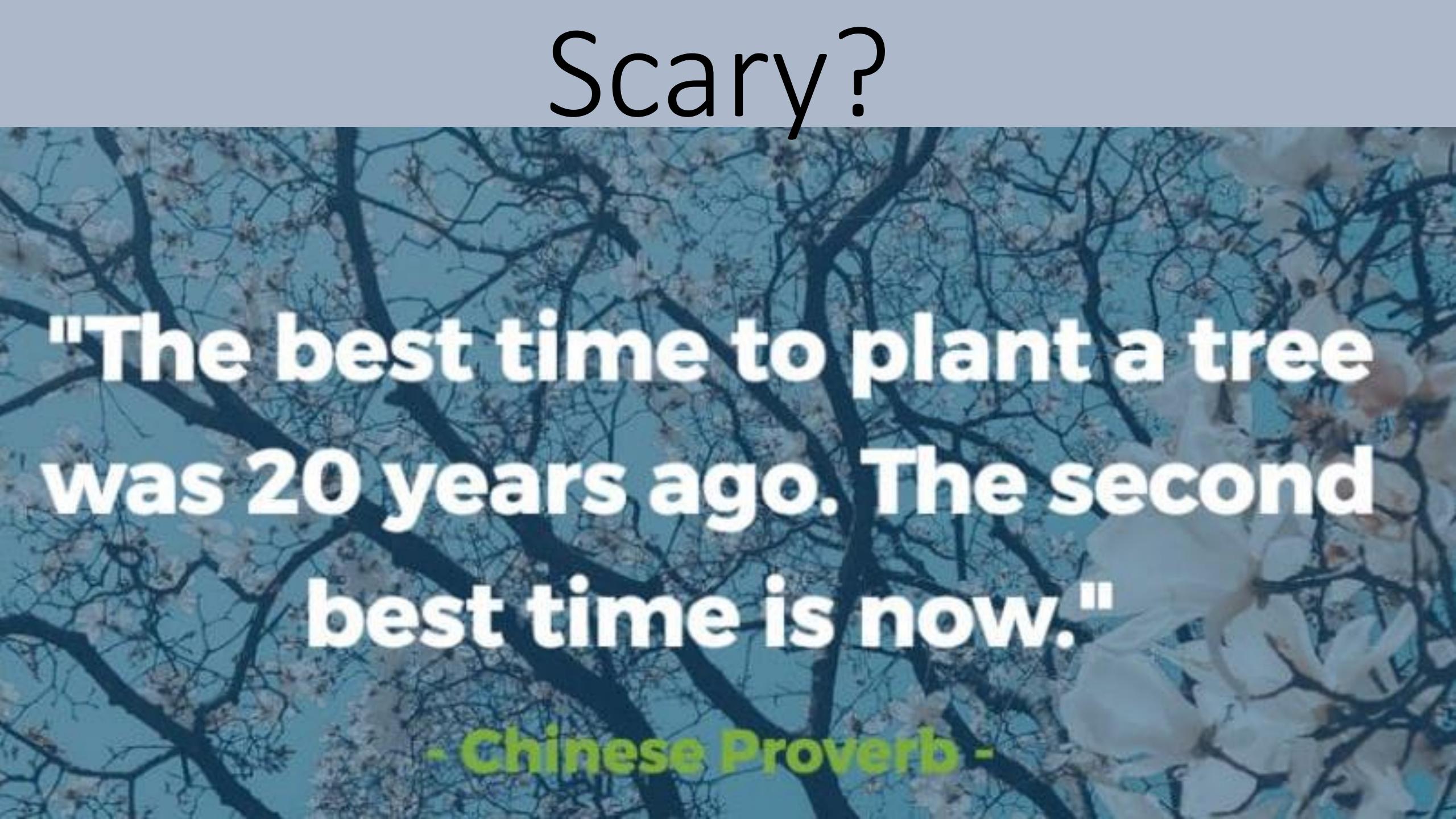
# What is your child studying and how are they assessed?



Combined Science	Separate (Triple) Science
2 GCSE grades	3 GCSE grades (one for each science)
AQA Trilogy Specification – 2 tiers available	AQA Biology, Chemistry and Physics Specifications 2 tiers available
<b>Exams: 6 papers:</b> Paper 1: Chemistry (Topics C1-C5) Paper 1: Physics (Topics P1-P4) Paper 1: Biology (Topics B1-B4) Paper 2: Chemistry (Topics C6-C10) Paper 2: Physics (Topics P5 – P7) Paper 2: Biology (Topics B5 – B7) <b>All papers are 1 hour 15 mins each and have the same weighting</b>	<b>Exams: 6 papers</b> 12 <sup>th</sup> May 18 <sup>nd</sup> May 2 <sup>nd</sup> June 8 <sup>th</sup> June 12 <sup>th</sup> June 15 <sup>th</sup> June <b>All papers are 1 hour 45 mins each and have the same weighting</b>

**13.7 Weeks from tomorrow**

# Scary?



**"The best time to plant a tree  
was 20 years ago. The second  
best time is now."**

**- Chinese Proverb -**

One of the best ways to...  
Know what you need to know  
Discover areas of weakness

is to use...  
Personalised learning checklists  
Specifications  
Past paper questions





# Specifications - Where are they?

Google

aqa science trilogy specification



All

News

Images

Videos

More

Settings

Tools

About 587,000 results (0.42 seconds)

## Science | GCSE | Combined Science: Trilogy - AQA

<https://www.aqa.org.uk/subjects/gcse/combined-science-trilogy-8464> ▾

Combined **Science: Trilogy** is part of our **science** suite, developed with teachers to inspire and challenge students of all abilities and aspirations. (See also **GCSE Combined Science: Synergy**). ... This means that this **specification** is fully co-teachable with the separate **GCSE sciences**.

[Specification at a glance](#) · [Assessment resources](#) · [Teaching resources](#) · [Introduction](#)

## [PDF] GCSE Combined Science: Trilogy Specification Specification ...

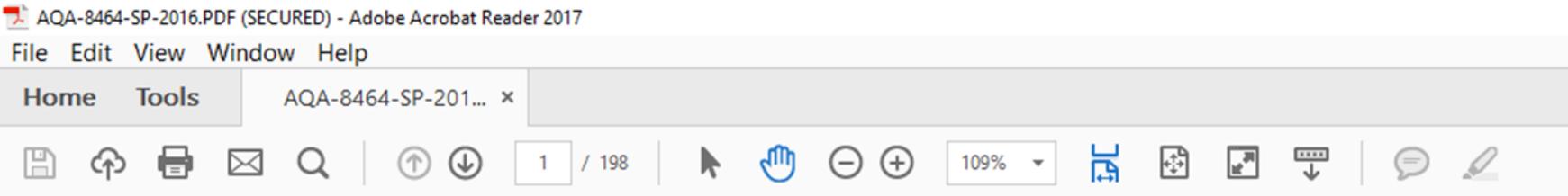
<https://filestore.aqa.org.uk/science/specifications/AQA-8464-SP-2016>

Visit [aqa.org.uk/8464](http://aqa.org.uk/8464) for the most up-to-date **specification**, resources, support and ... So you can be confident that our **GCSE Combined Science: Trilogy** is ...



Science Revision Zone

...



# What do they look like?

## GCSE COMBINED SCIENCE: TRILOGY

(8464)

### Specification

For teaching from September 2016 onwards

For exams in 2018 onwards



## 6.1.1.1 Energy stores and systems

### Content

A system is an object or group of objects.

There are changes in the way energy is stored when a system changes.

Students should be able to describe all the changes involved in the way energy is stored when a system changes, for common situations. For example:

- an object projected upwards
- a moving object hitting an obstacle
- an object accelerated by a constant force
- a vehicle slowing down
- bringing water to a boil in an electric kettle.

Throughout this section on Energy students should be able to calculate the changes in energy involved when a system is changed by:

- heating
- work done by forces
- work done when a current flows

### Key opportunities for skills development

The link between work done (energy transfer) and current flow in a circuit is covered in [Work done and energy transfer](#) (page 146).

WS 4.5



		AQA Physics (8463) from 2016 Topics P4.1. Energy		
Topic		Student Checklist		
Chapters 1 and 2 – Conservation and dissipation of energy Energy transfer by heat		Define a system as an object or group of objects and state examples of changes in the way energy is stored in a system		
		Describe how all the energy changes involved in an energy transfer and calculate relative change in energy when the heat, work done or flow of charge in a system changes		
		Use calculations to show how a component of the energy in a system is distributed		
		Calculate the kinetic energy of an object by recalling and applying the equation: $[ E_k = \frac{1}{2}mv^2 ]$		
		Calculate the amount of elastic potential energy stored in a stretched spring by applying, but not recalling, the equation: $[ E_e = \frac{1}{2}ke^2 ]$		
		Calculate the amount of gravitational potential energy gained by an object raised above ground level by recalling and applying, the equation: $[ E_e = mgh ]$		
		Calculate the amount of energy stored in or released from a system as its temperature changes by applying, but not recalling, the equation: $[ \Delta E = mc\Delta\theta ]$		
		Define the term 'specific heat capacity'		
		<b>Required practical 1:</b> investigation to determine the specific heat capacity of one or more materials.		
		Define power as the rate at which energy is transferred or the rate at which work is done and the watt as an energy transfer of 1 joule per second		
		Calculate power by recalling and applying the equations: $[ P = E/t \text{ & } P = W/t ]$		
		Explain, using examples, how two systems transferring the same amount of energy can differ in power output due to the time taken		
		State that energy can be transferred usefully, stored or dissipated, but cannot be created or destroyed and so the total energy in a system does not change		
		Explain that only some of the energy in a system is usefully transferred, with the rest 'wasted', giving examples of how this wasted energy can be reduced		
		Explain ways of reducing unwanted energy transfers and the relationship between thermal conductivity and energy transferred		
		Describe how the rate of cooling of a building is affected by the thickness and thermal conductivity of its walls		
		<b>Required practical 2:</b> investigate the effectiveness of different materials as thermal insulators and the factors that may affect the thermal insulation properties of a material.		
		Calculate efficiency by recalling and applying the equation: $[ \text{efficiency} = \text{useful power output} / \text{total power input} ]$		
		<b>HT ONLY:</b> Suggest and explain ways to increase the efficiency of an intended energy transfer		
Chapter 3 – Energy Resources		List the main renewable and non-renewable energy resources and define what a renewable energy resource is		
		Compare ways that different energy resources are used, including uses in transport, electricity generation and heating		
		Explain why some energy resources are more reliable than others, explaining patterns and trends in their use		
		Evaluate the use of different energy resources, taking into account any ethical and environmental issues which may arise		
		Justify the use of energy resources, with reference to both environmental issues and the limitations imposed by political, social, ethical or economic considerations		

Identify and describe scalar quantities and vector quantities

R	A	G



- Subj
- Sci
- Qua
- GC
- Spec
- Cor
- Seri
- All
- Question
- Question
- Question



44.9 KB) exams.

Do not write outside the box

[3 marks]

1e

1e

1e

1e

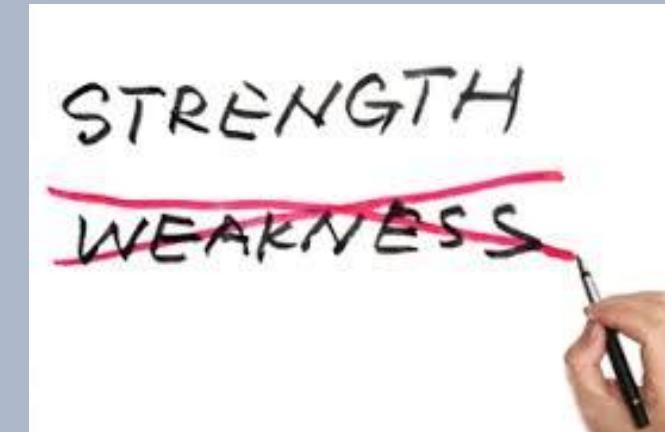
1e

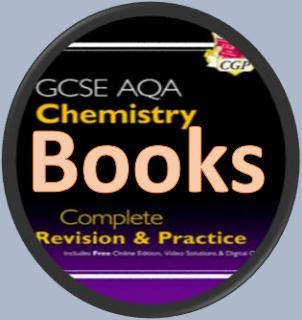
1e

1e

# Act on area of weakness

- Revision guides
- Revision knowledge mats
- Revision videos
- Seneca
- BBC Bitesize
- Independence booklets
- Revision sessions
- Contact teachers

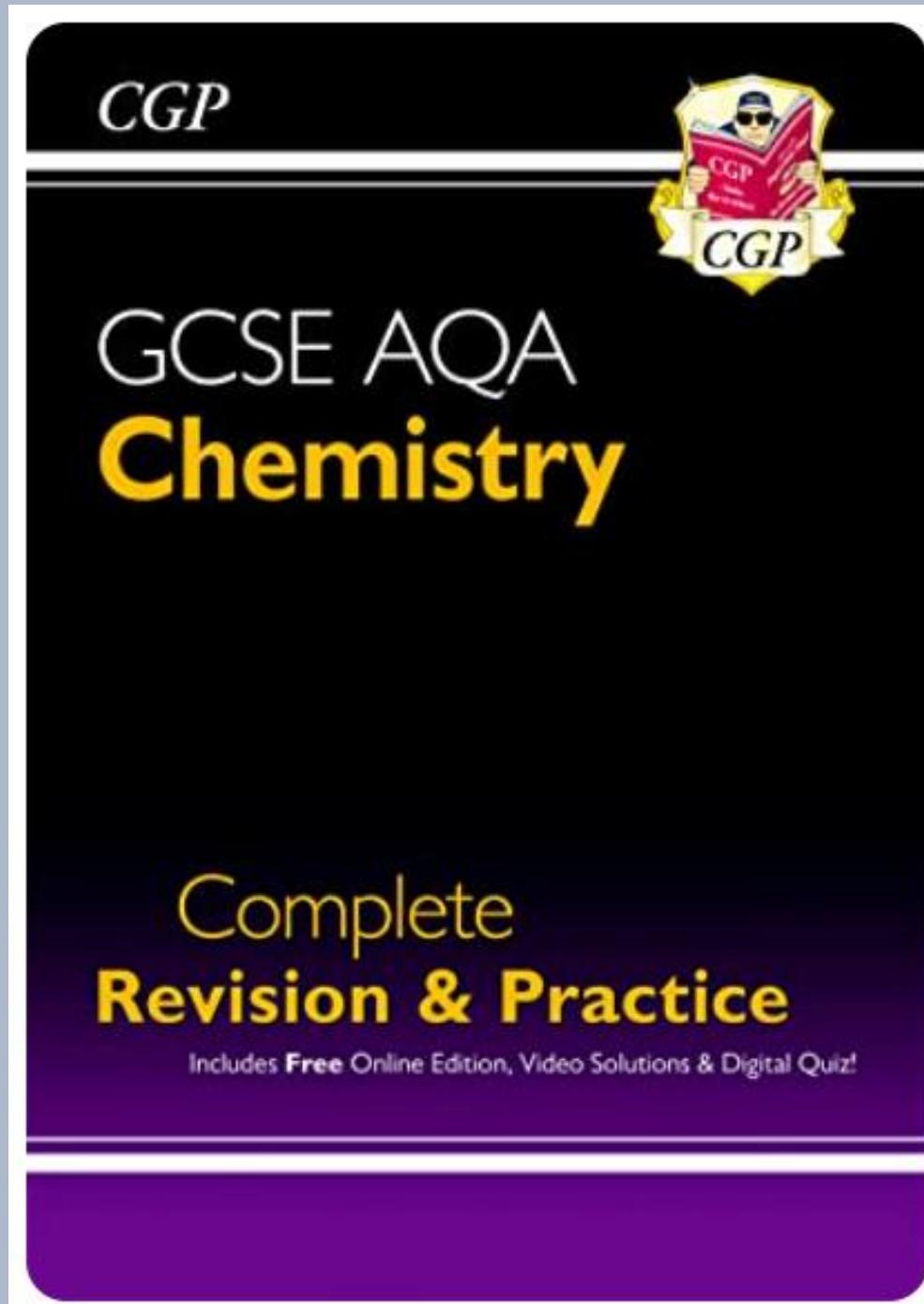




# Revision guides Practice books

## AQA 9-1 exam

Science  
department sells  
CGP books at  
roughly 50%  
RRP

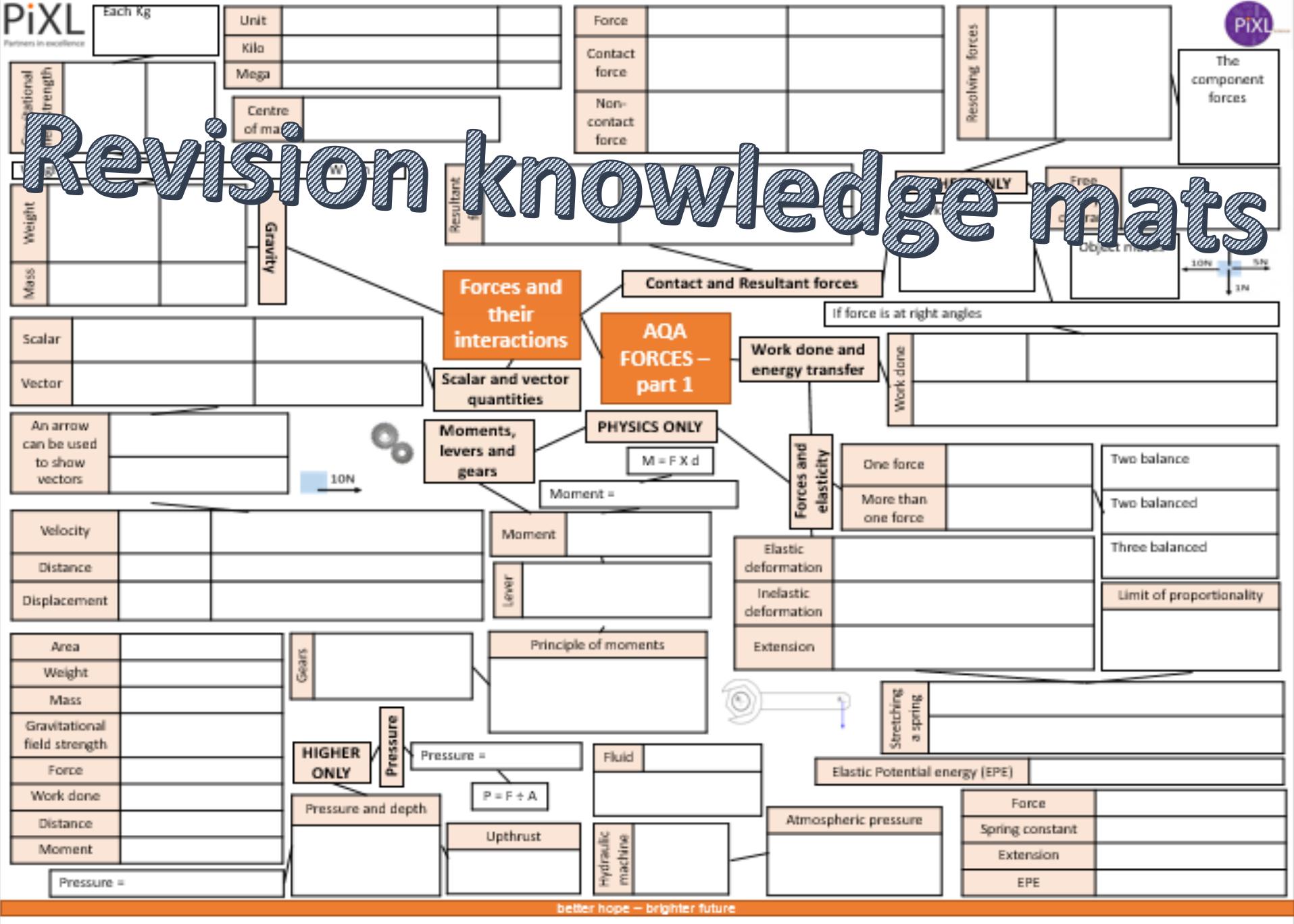




Science Revision Zone

...

# Revision knowledge mats





YouTube

Search

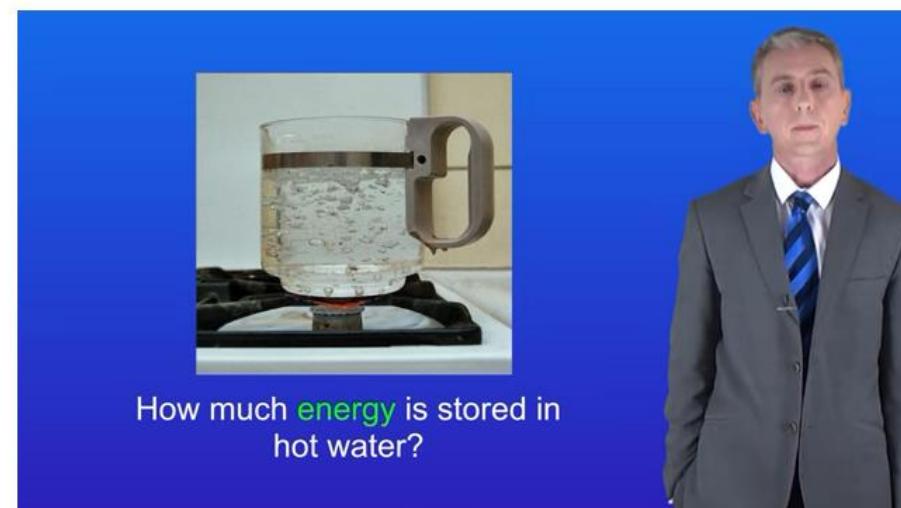


The whole of AQA Physics Paper 1 in only 40 minutes!!

YouTube

# Revision videos

# Primrose Kitten Free Science Lessons



GCSE Science Physics (9-1) Specific Heat Capacity

The image shows the Seneca Learning website interface. At the top left is a purple circular icon with icons for a computer, smartphone, and tablet, labeled 'Website'. The top navigation bar includes the Seneca logo and a 'BETA' label. The main title is 'Chemistry: AQA GCSE Higher'. On the left, a sidebar shows a tree structure of topics under '1.1 Atoms & Elements': '1.1.1 Elements & Compounds' (selected, highlighted in teal), '1.1.2 Chemical Reactions & Equations', '1.1.3 Mixtures', '1.1.4 Model of the Atom', '1.1.5 Atom Size & Number', '1.1.6 Isotopes', '1.1.7 Periodic Table', '1.1.8 Noble Gases & Halogens', '1.1.9 Alkali Metals', and '1.1.10 Transition Metals'. Below this are sections for '2 Chemical Bonding' and '3 Share Free Teacher CPD Course' with social media sharing icons. The main content area is titled 'Compounds' and discusses how atoms of different elements combine to form compounds. It features a 3D molecular model of a cyclohexadiene ring. A callout box says 'Different compounds' with a list: 'Combining different atoms creates different compounds. There are a lot of combinations that can be created.' and 'A compound contains at least 2 different elements.' There are 'Feedback?' and 'Continue' buttons at the bottom, along with a 'Typing Speed: x1.0' indicator.

Website

SENECA BETA

Chemistry: AQA GCSE Higher

New

1 / 3

Compounds

Atoms of different elements can be combined together to create compounds. Compounds have formulae that are made by combining the chemical symbols of the elements that combine to make them.

Different compounds

- Combining different atoms creates different compounds. There are a lot of combinations that can be created.
- A compound contains at least 2 different elements.

Feedback?

Continue

Typing Speed: x1.0

# Seneca - website



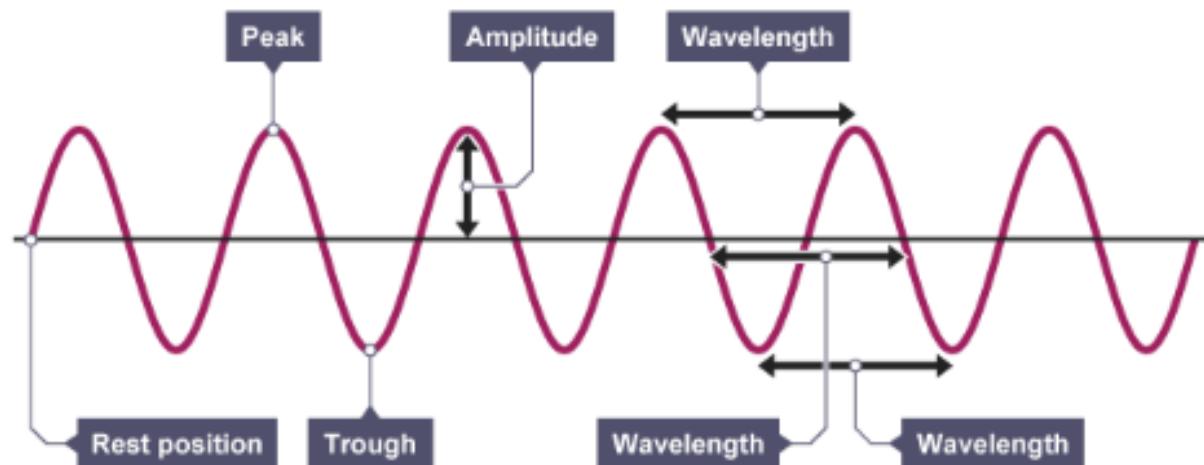
# B B C B i t e s i z e

## Parts of a wave

Waves are described using the following terms:

- **rest position** - the undisturbed position of particles or fields when they are not vibrating
- **displacement** - the distance that a certain point in the medium has moved from its rest position
- **peak** - the highest point above the rest position
- **trough** - the lowest point below the rest position
- **amplitude** - the maximum displacement of a point of a wave from its rest position
- **wavelength** - distance covered by a full cycle of the wave, usually measured from peak to peak, or trough to trough
- **time period** - the time taken for a full cycle of the wave, usually measured from peak to peak, or trough to trough
- **frequency** - the number of waves passing a point each second

## Diagram of a wave





<b>QUESTION:</b>	<b>What is a radioactive substance?</b>
<b>Sources:</b>	<b>Website –</b> 1. <a href="https://www.youtube.com/watch?v=V-UtgheMNNU">https://www.youtube.com/watch?v=V-UtgheMNNU</a> 2. <a href="http://www.darvill.clara.net/nucrad/types.htm">http://www.darvill.clara.net/nucrad/types.htm</a>  <b>1. A radioactive substance contains unstable nuclei that become stable by emitting radiation.</b> <b>2. There are three main types of radiation – alpha, <math>\alpha</math>, beta, <math>\beta</math> and gamma, <math>\gamma</math>.</b> <b>3. Radioactive decay is random – it cannot be predicted.</b> <b>4. All radioactive sources emit alpha, beta and gamma radiation.</b> <b>5. A Geiger counter is used to measure the amount of radioactivity given off by a substance.</b>

### The Risks of Radiation Therapy

News article: <https://www.cheatsheet.com/health-fitness/these-popular-cancer-treatments-have-the-most-dangerous-side-effects.html/?a=viewall>

NHS article: <http://www.nhs.uk/Conditions/Radiotherapy/Pages/Introduction.aspx>

Discussion article: <https://health.usnews.com/health-news/patient-advice/articles/2015/05/22/radiation-evolving-choices-in-cancer-treatment>

Real article: <http://www.cancerresearchuk.org/about-cancer/cancer-in-general/treatment/radiotherapy/follow-up/long-term-side-effects>

### Task 1:

You need to produce a 1 page essay on the risks surrounding radiation therapy.

Essay section	Activity
Introduction	What is radiation therapy? What is radiation therapy used to treat?
Describe	Describe how radiation therapy would be conducted using a specific type of tumor, e.g. brain, breast, liver.
Explore	Explore the risk associated with having radiation therapy.
Evaluate	Evaluate whether the benefit outweighs the risk for the patient.

Compare nuclear fission and nuclear fusion, their role in generating energy and their long-term futures.

### Background

Both fission and fusion are nuclear reactions that produce energy, but that is where their similarities end. Fission is the splitting of a heavy, unstable nucleus into two lighter nuclei, and fusion is the process where two light nuclei combine together releasing vast amounts of energy. Both have a place in the energy generation industry but, where is it?

### Source articles

<http://www.passmyexams.co.uk/GCSE/physics/nuclear-fusion.html>  
<http://www.passmyexams.co.uk/GCSE/physics/nuclear-fission.html>  
<http://www.gcsescience.com/prad37-nuclear-power-moderator-control-rod.htm>  
<http://www.passmyexams.co.uk/GCSE/physics/nuclear-reactor.html>  
<https://www.youtube.com/watch?v=LekacMuM12Y>  
<https://www.youtube.com/watch?v=mZsaaturR6E>  
[http://www.bbc.co.uk/schools/gcsebitesize/science/ocr\\_gateway\\_pre\\_2011/living\\_future/3\\_fuels\\_for\\_power3.shtml](http://www.bbc.co.uk/schools/gcsebitesize/science/ocr_gateway_pre_2011/living_future/3_fuels_for_power3.shtml)  
<http://www.bbc.co.uk/education/clips/zvmd2p>  
<http://www.world-nuclear.org/information-library/current-and-future-generation/outline-history-of-nuclear-energy.aspx>  
<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4678124/>

Use other sources as necessary.

### Task:

Produce a scientific poster on the role of nuclear fission and nuclear fusion in the generation of energy.

## Session 1

Click on the session 1 button and write the answers in your revision exercise book. If you are unsure of the facts in the topic go through the knowledge test questions and then mark it using the knowledge test answers.

Session 1

Knowledge test questions

Knowledge test answers

## Required Practical

Click on the required practical button. Write details about the practical. Including : Method, Variables, Equipment, Diagram, Results Table, How you use your results and a Conclusion.

Required Practical - Microscope

Required Practical - Osmosis

## Optional - Above and Beyond

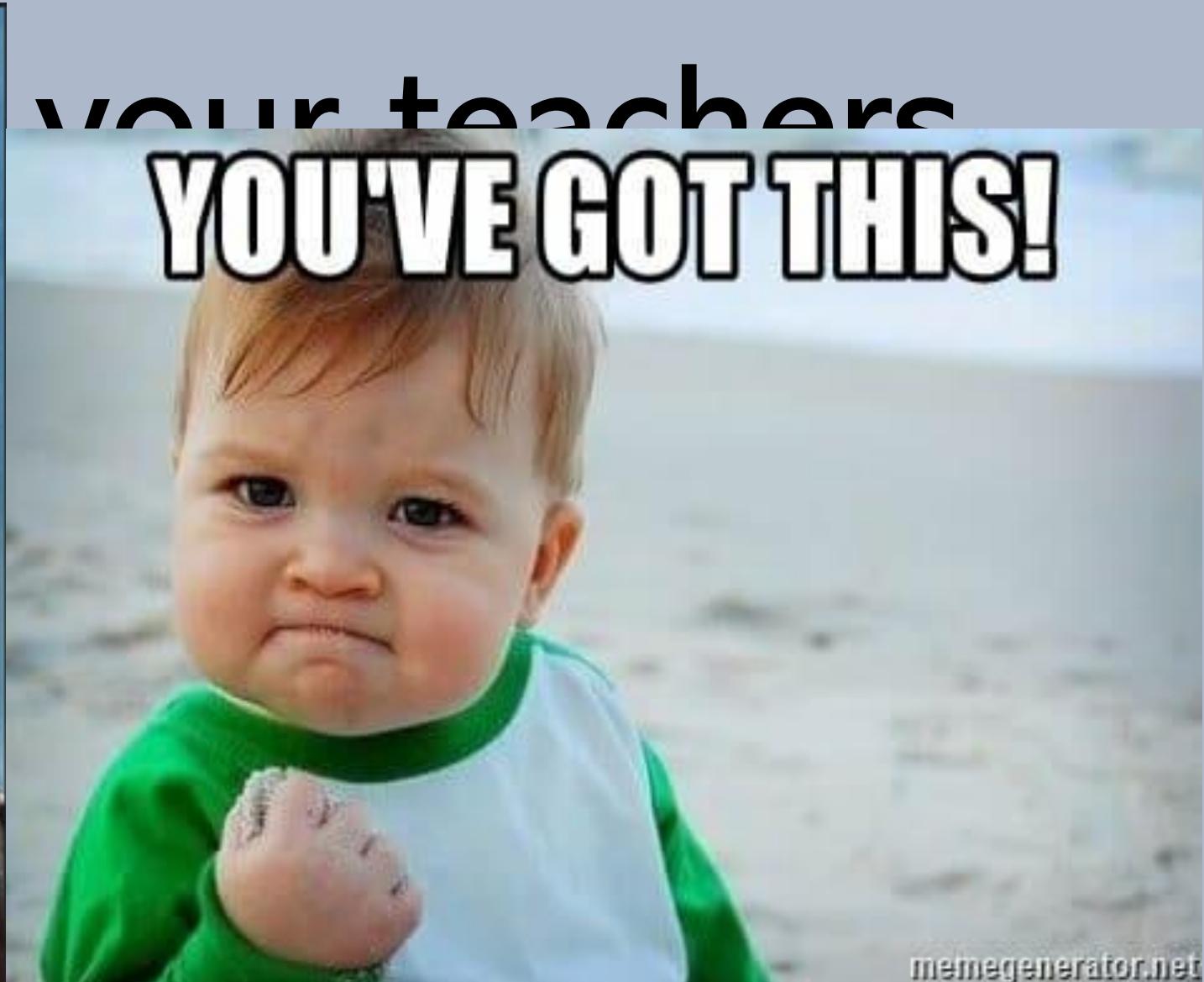
If you want to really test yourself complete the shorter questions below to show real understanding.

Above and Beyond Foundation

Above and Beyond Higher



You're  
Awesome!



Thanks and happy new year!

memegenerator.net

# GCSE Revision

## Plan & Organise

- Timetable your revision
- Break topics into chunks

## Active Learning

- Flashcards, mind maps, quizzes
- Teach someone else

## Mix It Up

- Rotate subjects/topics
- Avoid long single-subject sessions

## Past Papers

- Practice under exam conditions
- Check answers with mark schemes

# GCSE Revision

## **Focus on Weaknesses**

- Track progress & target gaps

## **Take Care of Yourself**

- Sleep, exercise, breaks, healthy food

## **Minimise Distractions**

- Quiet study space
- Limit social media

## **Use Support**

- Ask teachers
- Attend school revision sessions

## **Reward Progress**

- Celebrate small achievements