



# Welcome to the Year 11 Information Evening

Collaboration Opportunity Respect Excellence  
DELIVERING A CORE EDUCATION

# Contents

- Examination information (Mr Mann)
  1. Preparation for Maths Exam (Ms Gogna)
  2. Preparation for Science Exam (Mr Levy)
  3. Preparation for English Exam (Mr Amos)
  4. Head students (Naomi and Morgan)
- Question and Answer Session (Mr Mann + Mr Malik)

What is in my pack?

# Summer 2025 Examinations Timetable

Week One	Monday 28 <sup>th</sup> April 2025		Tuesday 29 <sup>th</sup> April 2025		Wednesday 30 <sup>th</sup> April 2025		Thursday 1 <sup>st</sup> May 2025		Friday 2 <sup>nd</sup> May 2025	
am 9am Start										
pm 1pm Start							<b>BTEC DIT</b>	1h 30m		

Week Two	Monday 5 <sup>th</sup> May 2025		Tuesday 6 <sup>th</sup> May 2025		Wednesday 7 <sup>th</sup> May 2025		Thursday 8 <sup>th</sup> May 2025		Friday 9 <sup>th</sup> May 2025	
am 9am Start	<b>Bank Holiday</b>						<b>Psychology Paper 1</b>	1h 45m	<b>Sociology Paper 1</b>	1h 45m
pm 1pm Start	<b>Bank Holiday</b>						<b>German Listening Paper 1 &amp; Reading Paper 3</b>	F35m & H45m F45m & H1hr	<b>Business Studies Paper 1</b>	1h 45m

Week Three	Monday 12 <sup>th</sup> May 2025		Tuesday 13 <sup>th</sup> May 2025		Wednesday 14 <sup>th</sup> May 2025		Thursday 15 <sup>th</sup> May 2025		Friday 16 <sup>th</sup> May 2025	
am 9am Start	<b>English Literature Paper 1</b>	1h 45m	<b>Religious Studies Paper 1</b>	1h 45m	<b>Geography Paper 1</b>	1h 30m	<b>Maths Paper 1 (Non-Calculator)</b>	1hr 30	<b>History Paper 1</b>	2h
pm 1pm Start	<b>Computer Science Paper 1</b>	1h 30m	<b>GCSE Biology Paper 1</b>	1h 45m	<b>CNAT Sports Studies</b>	1h 15m	<b>Psychology Paper 2</b>	1h 45m	<b>Business Studies Paper 2</b>	1h 45m
	<b>Chinese (Mandarin) Listening &amp; Reading</b>	F35m & H45m F45m & H1hr	<b>Combined Science Biology Paper 1</b>	1h 15m			<b>German Writing</b>	F1h & H1h 15m		

Week Four	Monday 19 <sup>th</sup> May 2025		Tuesday 20 <sup>th</sup> May 2025		Wednesday 21 <sup>st</sup> May 2025		Thursday 22 <sup>nd</sup> May 2025		Friday 23 <sup>rd</sup> May 2025	
am 9am Start	<b>GCSE Chemistry Paper 1</b>	1h 45m	<b>English Literature Paper 2</b>	2h 15m	<b>French Listening &amp; Reading</b>	F 35m H 45m	<b>GCSE Physics Paper 1</b>	1h 45m	<b>English Language Paper 1</b>	1h 45m
	<b>Combined Science Chemistry Paper 1</b>	1h 15m				F45m H 1h	<b>Combined Science Physics Paper 1</b>	1h 15m		
pm 1pm Start	<b>GCSE Physical Education Paper 1</b>	1h 15m	<b>Sociology Paper 2</b>		<b>Religious Studies Paper 2</b>	1h 45m	<b>Arabic Listening Paper 1 &amp; Reading Paper 3</b>	F35m & H45m F50m & H1hr 5m		
	<b>Chinese (Mandarin) Writing</b>	F1h & H1h 15m	<b>Computer Science Paper 2</b>	1h 30m						

# Half-Term Holiday

**Start:**  
1<sup>st</sup> May

**Finish:**  
18<sup>th</sup> June

**Contingency day:**  
25<sup>th</sup> June

**Results day:**  
21<sup>st</sup> August

Week Five	Monday 2 <sup>nd</sup> June 2025		Tuesday 3 <sup>rd</sup> June 2025		Wednesday 4 <sup>th</sup> June 2025		Thursday 5 <sup>th</sup> June 2025		Friday 6 <sup>th</sup> June 2025	
am 9am Start	Italian Listening & Reading	F35m & H45m F45m & H1hr	Arabic Writing Paper 4	F1h 20m & H1h 25m	Maths Paper 2 (Calculator)	1h 30m	History Paper 2	2h	English Language Paper 2	1h 45m
pm 1pm Start			Punjabi Listening & Reading	F35m & H45m F45m & H1hr	CNAT H&SC	1h 15m	French Writing Paper 4	F 1h H 1h 15m	Geography Paper2	1h 30m

Week Six	Monday 9 <sup>th</sup> June 2025		Tuesday 10 <sup>th</sup> June 2025		Wednesday 11 <sup>th</sup> June 2025		Thursday 12 <sup>th</sup> June 2025		Friday 13 <sup>th</sup> June 2025	
am 9am Start	GCSE Biology Paper 2	1h 45m	Spanish Listening & Reading	F35m & H45m	Maths Paper 3 (Calculator)	1h 30m	Geography Paper 3	1h 30m	GCSE Chemistry Paper 2	1h 45m
	Combined Science Biology Paper 2	1h 15m		F45m & H1hr					Combined Science Chemistry Paper 2	1h 15m
pm 1pm Start	GCSE Physical Education Paper 2	1h 15m			CONTINGENCY AFTERNOON		Punjabi Writing	F1h & H1h 15m		
	Italian Writing	F1h & H1h 15m								

Week Seven	Monday 16 <sup>th</sup> June 2025		Tuesday 17 <sup>th</sup> June 2025		Wednesday 18 <sup>th</sup> June 2025		Thursday 19 <sup>th</sup> June 2025		Friday 20 <sup>th</sup> June 2025	
am 9am Start	GCSE Physics Paper 2	1h 45m	Spanish Writing	F1h & H1h 15m	Design Technology	2h				
	Combined Science Physics Paper 2	1h 15m								
pm 1pm Start			Food Preparation & Nutrition	1h 45m						

Week Eight	Monday 23 <sup>rd</sup> June 2025		Tuesday 24 <sup>th</sup> June 2025		Wednesday 25 <sup>th</sup> June 2025		Thursday 26 <sup>th</sup> June 2025		Friday 27 <sup>th</sup> June 2025	
am 9am Start					CONTINGENCY DAY					
pm 1pm Start					CONTINGENCY DAY					

CONTINGENCY AFTERNOON/DAY – for GCSE should sustained national or local disruption arise during the June 2025 series – All students must be available until 26<sup>th</sup> June 2025.

**WHAT EVERY STUDENT needs  
to know about REVISION**



What techniques?

When to start?

Where is best?



What to revise?

How often?

# Revision Timetable



Create your own revision timetable.

You could use colour to identify individual subjects. Remember to plan for sensible breaks, drink lots of water and have healthy snacks to hand.

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Subject	Sessions per week
9am									
10am									
11am									
12pm									
1pm									
2pm									
3pm									
4pm									
5pm									
6pm									
7pm									
8pm									

Remember to spread out when you study the same subject/topic and to focus on testing yourself/ retrieval practise and the Leitner system when using flashcards in preference to reading large amounts of information and highlighting notes/texts.



[illegible]

**GCSE Mathematics Higher Tier**

**Algebra** **Ratio, proportion and rates of change** **Geometry & measures**

**Number** **Algebra** **Ratio, proportion and rates of change** **Geometry & measures**

**Living strategies**  
Product rule for counting:  
If A has 3 options, B has 2 options, C has 1 option, then the total number of ways to arrange the letters P, A, K and L is  $3 \times 2 \times 1 = 6$  ways.

**Power and roots**  
Special indices for any value a:  
 $a^0 = 1$   
 $a^1 = a$   
 $a^2 = a \times a$   
 $a^3 = a \times a \times a$   
 $a^{-1} = \frac{1}{a}$   
 $a^{-2} = \frac{1}{a^2}$   
 $a^{-3} = \frac{1}{a^3}$   
 $a^{\frac{1}{2}} = \sqrt{a}$   
 $a^{\frac{1}{3}} = \sqrt[3]{a}$   
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## Year 11 Easter Revision Timetable

Day	Subject	Time	Staff	Room Number
<b>Monday</b> <b>14<sup>th</sup> April 25</b>	<b>R.E</b>	<b>9am to 1.30pm</b>	<b>AMO</b>	<b>5</b>
	<b>English Language</b>	<b>12pm to 1.30pm</b>	<b>LAM</b>	<b>16</b>
<b>Tuesday</b> <b>15<sup>th</sup> April 2025</b>	<b>English Literature</b>	<b>10am to 12pm</b>	<b>LAM</b>	<b>16</b>
<b>Thursday</b> <b>17<sup>th</sup> April 2025</b>	<b>Business Studies</b>	<b>9am to 10.30am</b>	<b>HBA</b>	<b>35</b>
	<b>Psychology</b>	<b>9am to 10.30am</b>	<b>GSK</b>	<b>10</b>
	<b>History</b>	<b>10.30am to 12pm</b>	<b>GSK</b>	<b>10</b>

How many hours should my child be  
revising?

Minimum 24 hours a week

Quality over Quantity

hours a day

# Revision Strategies



**Re-reading**

**Highlighting**

**Making notes**

**Active Recall**

**Retrieval Testing**

**Past exam papers**

# Revision Guidance



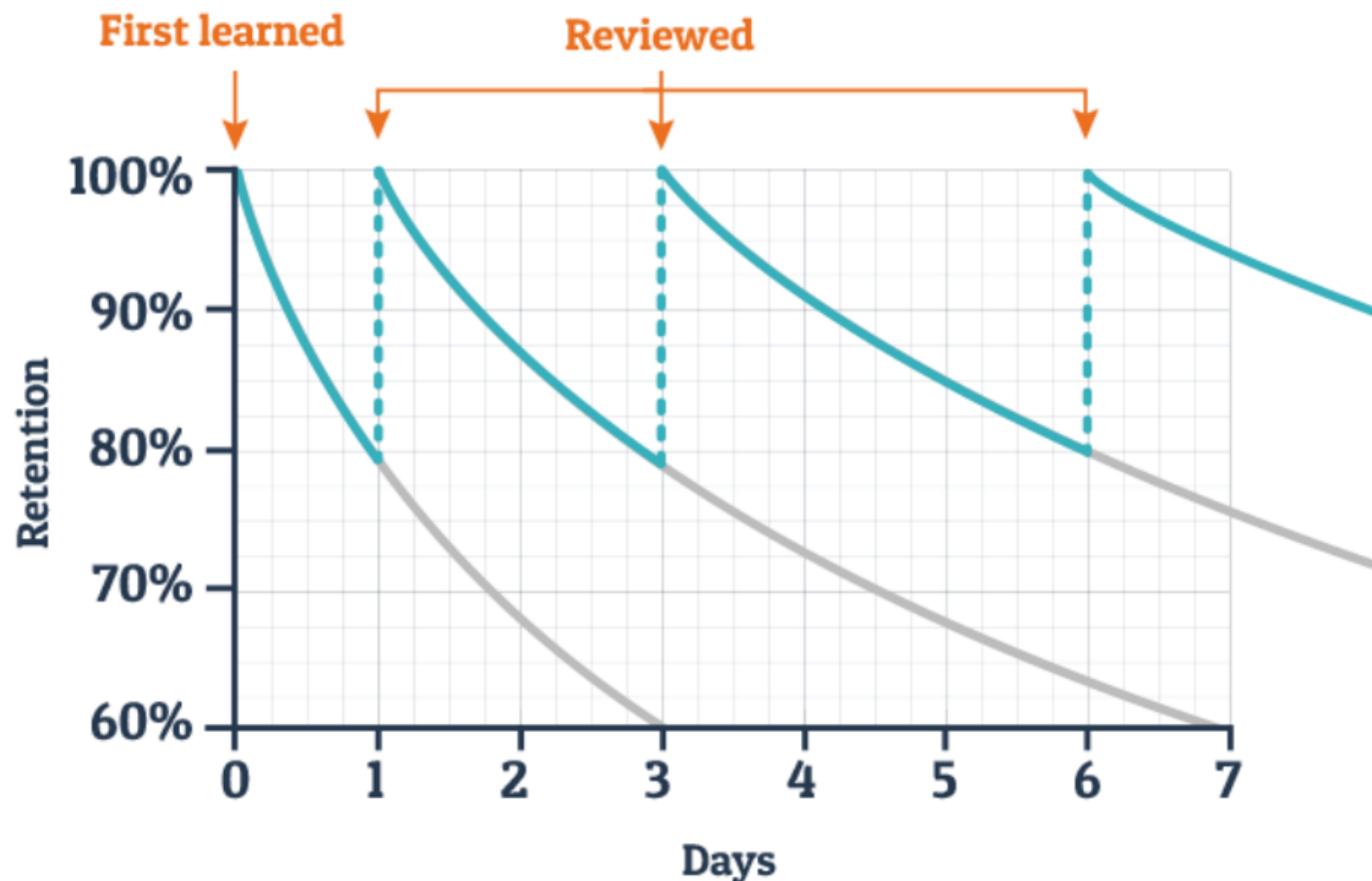
## What is Revision?

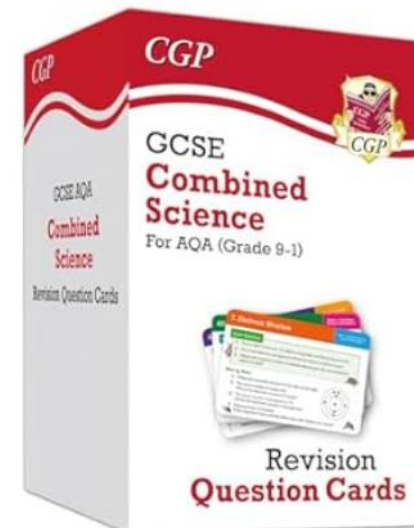
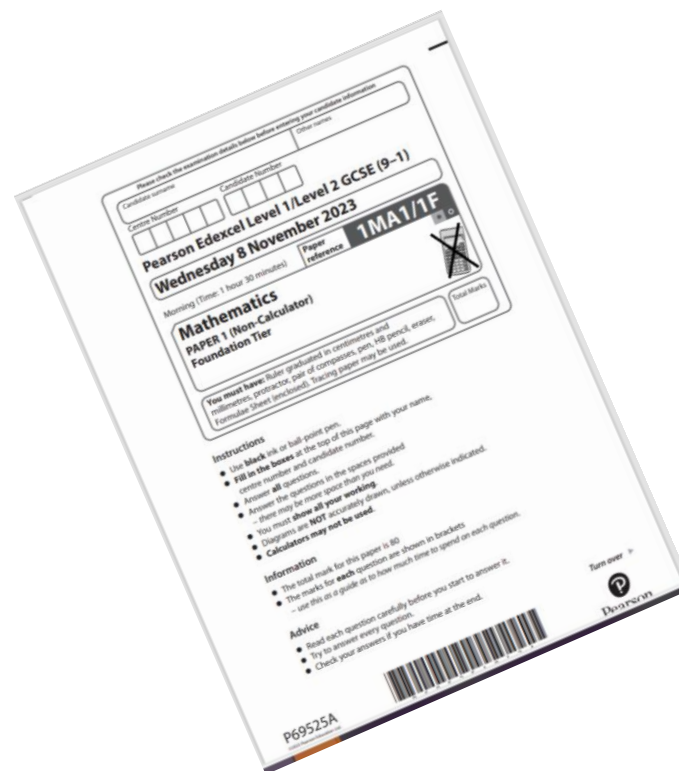
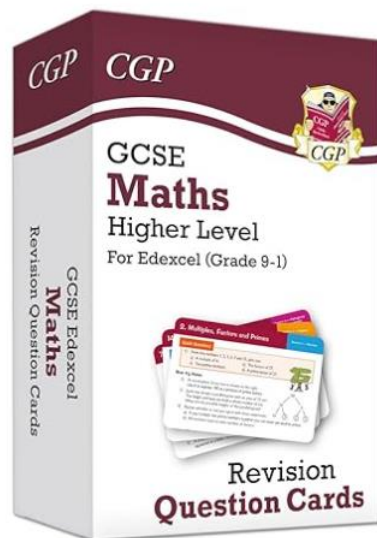
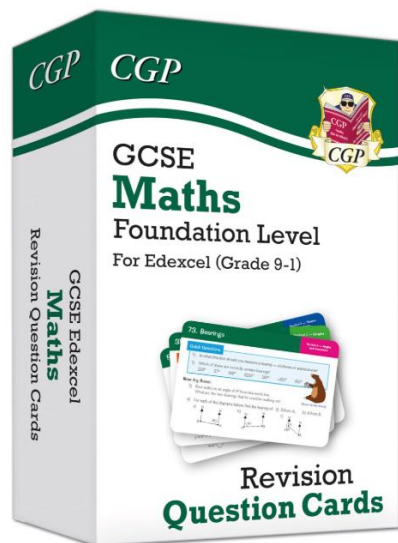
Revision means 'looking again'.

## Research into learning and memory shows that:

- When we learn something, we rapidly forget much of it. This is shown by the graph
- When we re-visit something we've learned repeatedly, we remember it better and we forget less.

## Typical Forgetting Curve for Newly Learned Information







# Revision Timetable

Create your own revision timetable.

You could use colour to identify individual subjects. Remember to plan for sensible breaks, drink lots of water and have healthy snacks to hand.

	Mon	Tues	Wed	Thurs	Fri	Sat	Sun	Subject	Sessions per week
9am									
10am	Geometry		Networks						
11am		Rivers			Rivers Elizabethan England				
12pm									
1pm				Geometry Reactions Networks					
2pm									
3pm	Reactions								
4pm									
5pm			Elizabethan England						
6pm									
7pm									
8pm									

Remember to spread out when you study the same subject/topic and to focus on testing yourself/ retrieval practise and the Leitner system when using flashcards in preference to reading large amounts of information and highlighting notes/texts.

How can I help my child?

# Quiet space to study



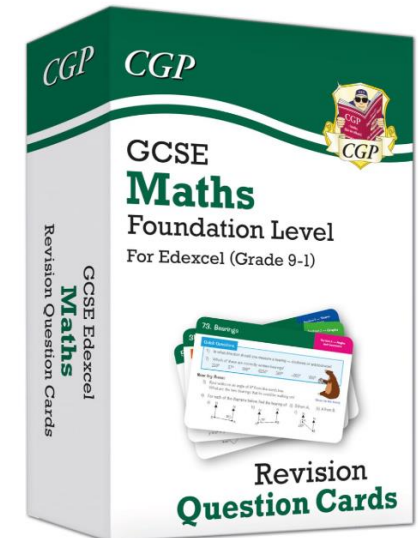
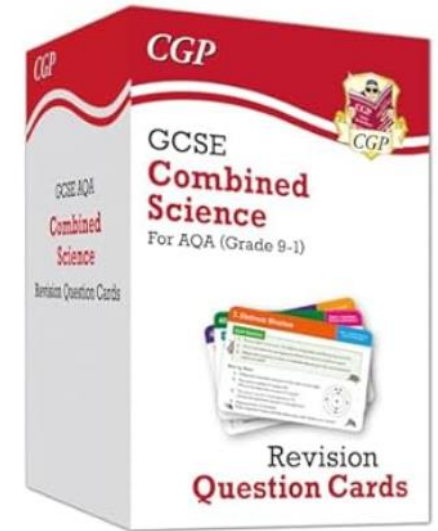


# Encourage regular breaks





# Ask your child questions



# Healthy Diet





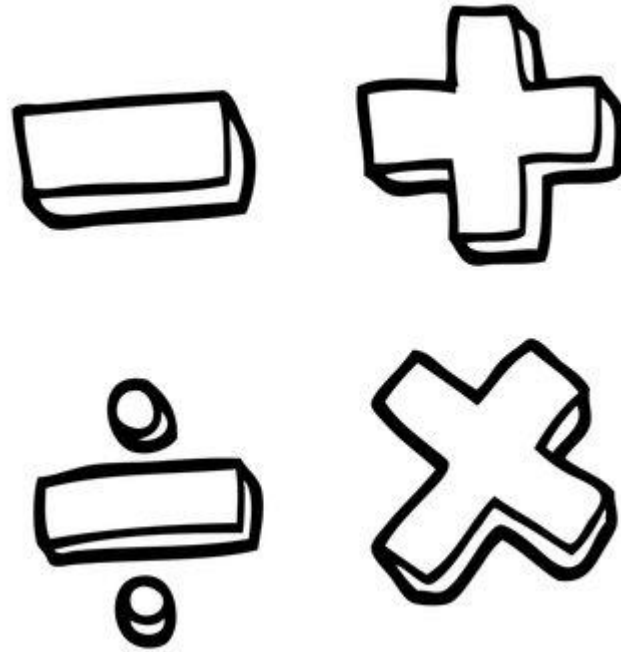
# Healthy Sleep Pattern



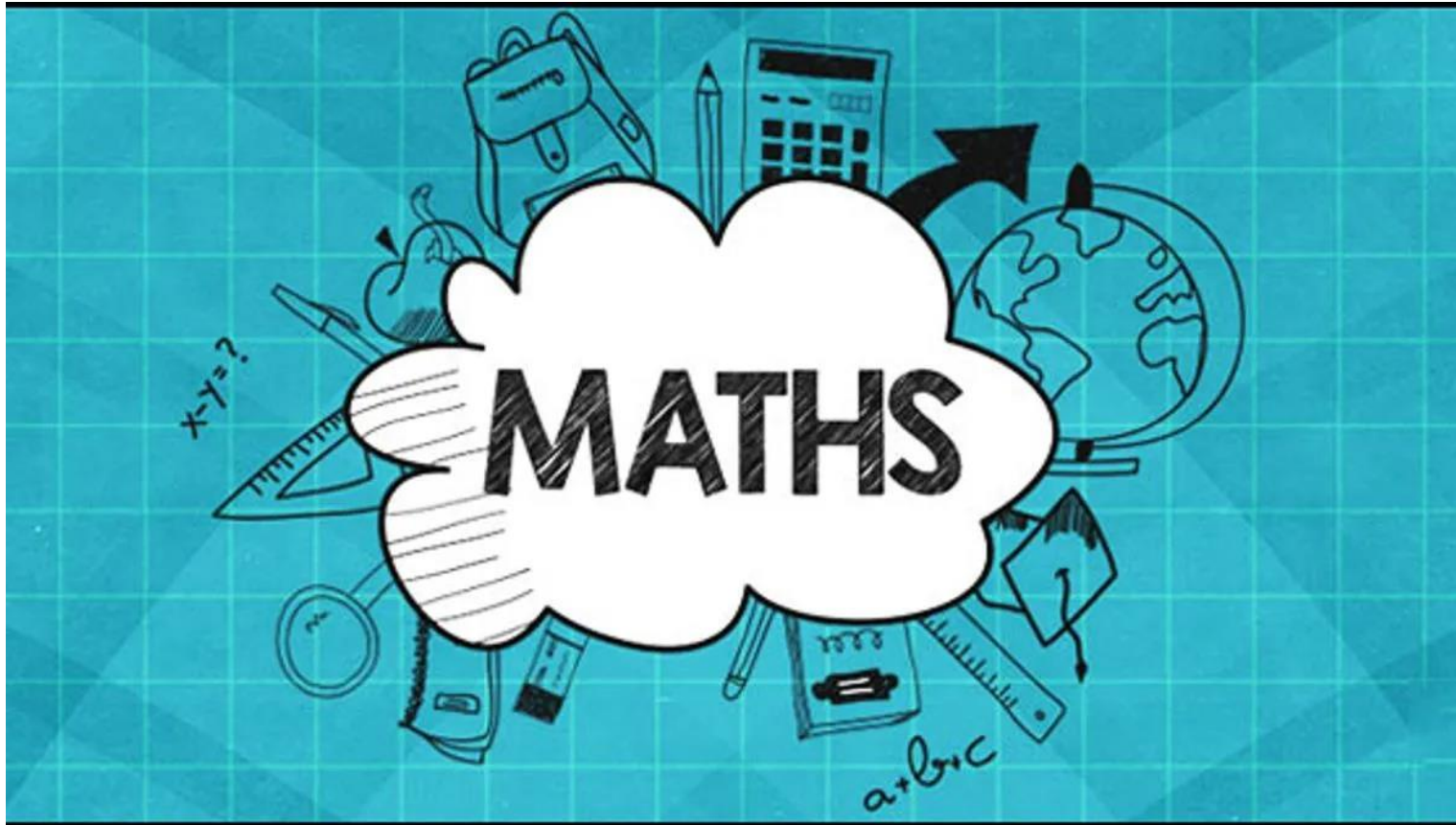
# Too much pressure



# Ms Gogna



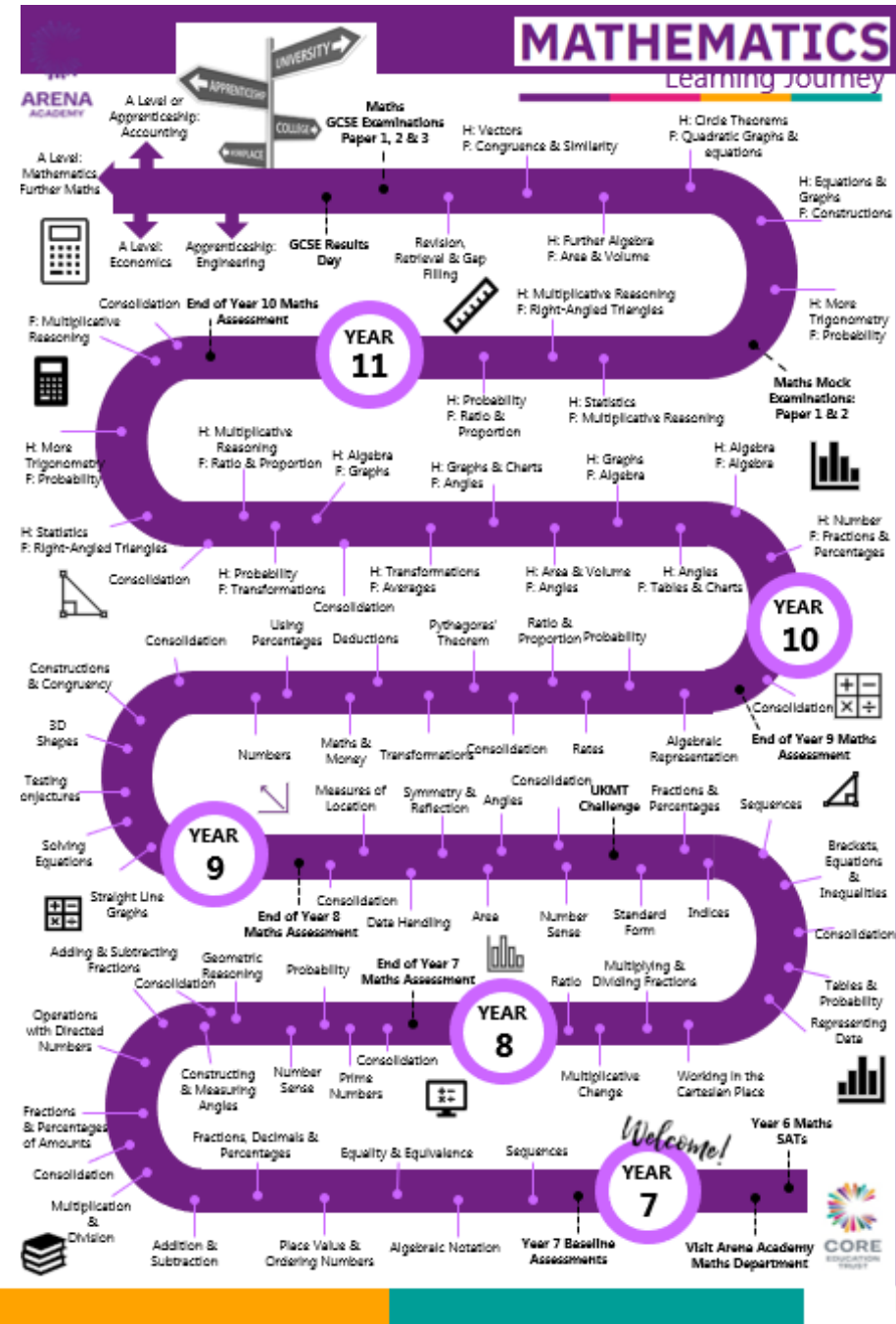
# How to be successful in ....



# Maths at Arena

## Maths learning journey

These are all the topics you will have learnt in maths



# Maths at Arena

What topics  
will come up  
on the  
different  
papers?

- You can be asked anything from the topics you have learnt in maths
- Number, Algebra, Shape and space, Handling data
- After the first paper you will have a rough idea about what can come up on other papers





## Resources and Websites

1. Sparx Maths
2. Maths Genie
3. Past Exam Papers
4. Maths Flash Cards
5. Exercise books



Select this!

The screenshot shows the Sparx Maths 'Independent Learning' page. A red arrow points from the 'Select this!' text to the 'Independent Learning' option in the left-hand navigation menu. Another red arrow points from the 'Select GCSE' text to the 'GCSE' dropdown in the 'Your curriculum:' section. A third red arrow points from the 'Assess all topics here!!' text to the topic selection grid. A green bracket highlights the entire topic selection grid area.

**Sparx Maths** Independent Learning 866 XP Teacher Menu

## Independent Learning

**Find topics** My activity

Search for topics: Enter topic name or code

Your curriculum: GCSE Default level: Level 3

Select a topic:

<b>Number</b> $\div$ $+$ $\times$ $-$	<b>Algebra</b> $x^2$
<b>Ratio and Proportion</b> 3:2	<b>Geometry</b> $\updownarrow$

Select GCSE

Assess all topics here!!

- Exam style questions
- Video walk throughs
- Detailed explanations
- Additional tasks

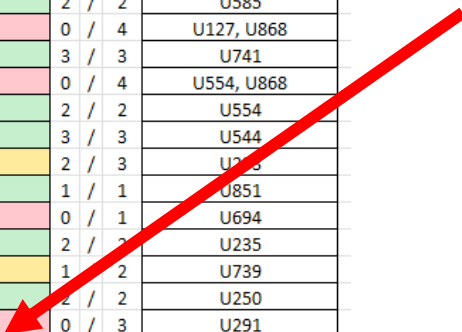
# MATHS MOCK EXAM SPARX CODES

# Sparx Maths

Mathematics Assessment Feedback					sparx
Paper	Edexcel November 2023 Paper 1F				
Name	Alexis				
Teacher	Enter Teacher Name				
	Questions	Topic	Score	Sparx Code	
	1	Calculating the range	1 / 1	U526	
	2	Adding and subtracting integers	1 / 1	U417	
	3	Using algebraic notation	1 / 1	U613	
	4	Understanding, measuring and drawing angles	1 / 1	U447	
	5	Finding fractions of amounts without a calculator	1 / 1	U881	
	6	Converting units of length, mass and capacity	3 / 3	U388	
	7a	Drawing and interpreting scale diagrams	1 / 1	U257	
	7b	Drawing and interpreting scale diagrams	1 / 1	U257	
	8a	Drawing and interpreting tally charts	2 / 2	U653	
	8b	Finding averages from frequency tables	1 / 1	U569	
	8c	Drawing bar charts	3 / 3	U363	
	9i	Writing probabilities as fractions	1 / 1	U408	
	9ii	Probabilities of mutually exclusive events	1 / 1	U683	
	9iii	Using probability phrases	1 / 1	U803	
	10	Solving direct proportion word problems	0 / 3	U721	
	11	Enlargement by a positive scale factor	1 / 2	U519	
	12ai	Substituting into algebraic formulae	2 / 2	U585	
	12aii	Substituting into algebraic formulae	2 / 2	U585	
	12b	Substituting into algebraic formulae	2 / 2	U585	
	13	Using a written method to multiply and divide integers	0 / 4	U127, U868	
	14	Plotting straight line graphs	3 / 3	U741	
	15	Finding percentages of amounts, Using a written method to divide integers	0 / 4	U554, U868	
	16	Finding percentages of amounts without a calculator	2 / 2	U554	
	17	Dividing fractions	3 / 3	U544	
	18	Using a written method to multiply decimals	2 / 3	U238	
	19ai	Calculating with roots and powers	1 / 1	U851	
	19aii	Index rules with negative indices	0 / 1	U694	
	19b	Index rules with positive indices	2 / 2	U235	
	20a	Prime factor decomposition	1 / 2	U739	
	20b	Finding the HCF and LCM using prime factor decomposition	2 / 2	U250	
	21a	Calculating the mean	0 / 3	U291	
	21b	Calculating the mean	0 / 1	U291	
	22	Constructing perpendicular bisectors and lines	1 / 2	U245	
	23	Angles in triangles, Constructing and solving equations	0 / 4	U628, U599	
	24	Constructing and solving equations, Solving direct proportion word problems	5 / 5	U599, U721	
	25	Calculating with density	0 / 2	U910	
	26	Estimating calculations	1 / 3	U225	
	27a	Expanding double brackets	0 / 2	U768	
	27b	Factorising a difference of two squares	1 / 1	U963	
		Total	50 / 80		

Every child has a sparx codes sheets generated from mock exams

The red and yellow detail & pinpoint what areas to work on



# Sparx Maths

The screenshot shows the Sparx Maths website interface. At the top, there's a blue header with "Sparx Maths" and "Independent Learning". Below this is a sidebar with navigation options: "Compulsory", "XP Boost", "Target", and "Independent Learning" (which is highlighted). The main area has a large heading "Independent Learning" and two tabs: "Find topics" and "My activity". Under "Find topics", there's a search bar labeled "Search for topics:" with the placeholder "Enter topic name or code". To the right, there's a dropdown menu for "Your curriculum:" set to "GCSE". Below the search bar, it says "Select a topic:". There are four topic cards visible: "Number" (with division and addition icons), "Algebra" (partially visible), "Ratio and Proportion" (with a ratio icon), and "Geomet..." (partially visible). A red arrow points from the "Independent Learning" sidebar option to the search bar. Another red arrow points from the text "Enter codes here" to the search bar.

~~Enter codes here~~

Paper	November 2022 Paper 1H
Name	<input type="text"/>
Teacher	Enter Teacher Name

**sparx**

Questions	Topic	Score	Sparx Code
1	Prime factor decomposition	3 / 3	U739
2a	Adding and subtracting mixed numbers	2 / 2	U793
2b	Dividing with mixed numbers	2 / 2	U538
3	Index rules with positive and negative indices	2 / 2	U235
4	Multiplying and dividing with place value, Multiplying decimals	2 / 2	U735, U293
5	Solving direct proportion word problems, Multiplying and dividing with place value	2 / 2	U721, U735
6ai	Combining ratios	1 / 2	U921
6aii	Converting between ratios, fractions and percentages	0 / 2	U176
6b	Changing the subjects of formulae, Writing and simplifying ratios	0 / 2	U556, U687
7	Calculating with pressure	2 / 2	U527
8	Finding the highest common factor (HCF)	2 / 2	U529
9a	Graphs of cubic functions	2 / 2	U980
9b	Graphs of cubic functions	0 / 2	U980
10a	Experimental probabilities, Tree diagrams for independent events	0 / 2	U580, U558
10b	Experimental probabilities, Converting fractions, decimals and percentages	2 / 2	U580, U888
11	Enlargement by a positive scale factor	0 / 2	U519
12	Solving simultaneous equations using elimination	3 / 4	U760
13	Constructing inverse proportion equations	3 / 3	U138
14	Drawing histograms with unequal class widths	2 / 3	U814

Step 1 : Log into sparx  
Step 2 : Select Independent learning  
Step 3: Enter topic codes from your mock exams sheets.  
Step 4: CLOSE GAPS IN LEARNING

# MATHS GENIE : GCSE REVISION

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

The screenshot shows the Maths Genie website interface. The top navigation bar includes links for GCSE Revision, GCSE Papers, A Level Revision, A Level Papers, KS2 Revision, and Resources. The 'GCSE Revision' link is circled in red. Below the navigation bar, the 'GCSE Revision' section is displayed, featuring a search bar and a list of topics. The 'Videos' link is circled in red. The list of topics includes:

- 1.1 Addition and Subtraction
- 1.2 Multiplication and Division
- 1.3 Time
- 1.4 Metric Conversions
- 1.5 Writing, Simplifying and Ordering
- 1.6 Place Value
- 1.7 Rounding
- 1.8 Negative Numbers

Below the list of topics, a video player is shown displaying a handwritten solution for a ratio problem. The problem is:

14 In a theatre the ratio of adults to children is 7:3 (10 PARTS)  
The ratio of boys to girls is 3:2 (5 PARTS)  
What percentage of all the people in the cinema are girls?

The solution shows the following steps:

$$\frac{7}{10} \text{ ADULTS} \quad \frac{3}{10} \text{ CHILDREN}$$
$$\frac{3}{5} \text{ BOYS} \quad \frac{2}{5} \text{ GIRLS}$$
$$\frac{2}{5} \text{ of } \frac{3}{10} = \frac{6}{50} = \frac{12}{100} = 12\%$$

The final answer is 12%.

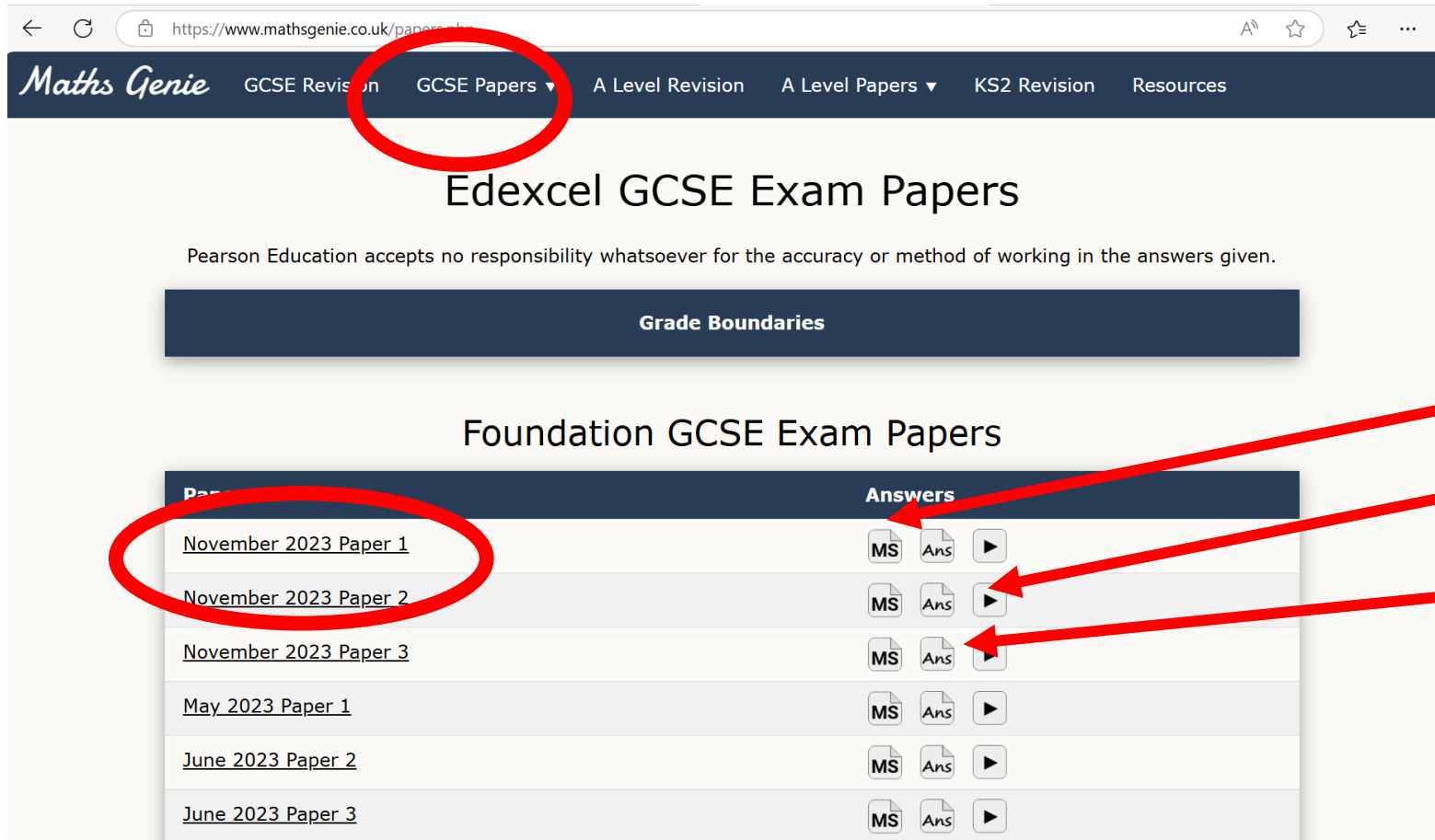
Use Exam Genie to access

Video walk throughs  
Exam Questions  
Written solutions

All topics organised and listed  
by grade  
From 1 to 9.

# MATHS GENIE: PAST EXAM PAPERS

[www.mathsgenie.co.uk](https://www.mathsgenie.co.uk)



The screenshot shows the Maths Genie website interface. The navigation menu at the top includes 'Maths Genie', 'GCSE Revision', 'GCSE Papers', 'A Level Revision', 'A Level Papers', 'KS2 Revision', and 'Resources'. The 'GCSE Papers' link is circled in red. Below the menu, the page is titled 'Edexcel GCSE Exam Papers'. A disclaimer states: 'Pearson Education accepts no responsibility whatsoever for the accuracy or method of working in the answers given.' Below this is a 'Grade Boundaries' button. The main section is titled 'Foundation GCSE Exam Papers'. It contains a table with two columns: 'Papers' and 'Answers'. The first row of the table is circled in red and contains the following data:

Papers	Answers
<a href="#">November 2023 Paper 1</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">November 2023 Paper 2</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">November 2023 Paper 3</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">May 2023 Paper 1</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">June 2023 Paper 2</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>
<a href="#">June 2023 Paper 3</a>	<a href="#">MS</a> <a href="#">Ans</a> <a href="#">▶</a>

Use Exam Genie to access  
All past exam papers

Official Markschemes  
Video walk throughs  
&  
Worked solutions






# PAST EXAM PAPERS

[www.mathsgenie.co.uk](http://www.mathsgenie.co.uk)

Please check the examination details below before entering your candidate information

Candidate surname		Other names	
Centre Number		Candidate Number	
[ ][ ][ ][ ][ ]		[ ][ ][ ][ ][ ]	
Pearson Edexcel Level 1/Level 2 GCSE (9–1)			
Wednesday 8 November 2023			
Morning (Time: 1 hour 30 minutes)		Paper reference <b>1MA1/1F</b>	
<b>Mathematics</b> <b>PAPER 1 (Non-Calculator)</b> <b>Foundation Tier</b>			
<b>You must have:</b> Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, Formulae Sheet (enclosed). Tracing paper may be used.			Total Marks

#### Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of this page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
– *there may be more space than you need.*
- You must **show all your working**.
- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
- **Calculators may not be used.**

#### Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets  
– *use this as a guide as to how much time to spend on each question.*

#### Advice

- Read each question carefully before you start to answer it.
- Try to answer every question.
- Check your answers if you have time at the end.

P69525A

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23/10/2023



Turn over ►



Foundation paper		
	Total	Av
Grade 5	175	59
Grade 4	142	47
Grade 3	103	34
Grade 2	65	22
Grade 1	27	9

# 80 marks per paper



Please check the examination details below before entering your candidate information

Candidate surname		Other names	
Centre Number		Candidate Number	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Pearson Edexcel Level 1/Level 2 GCSE (9–1)**

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Z-1/1/1/1/1/



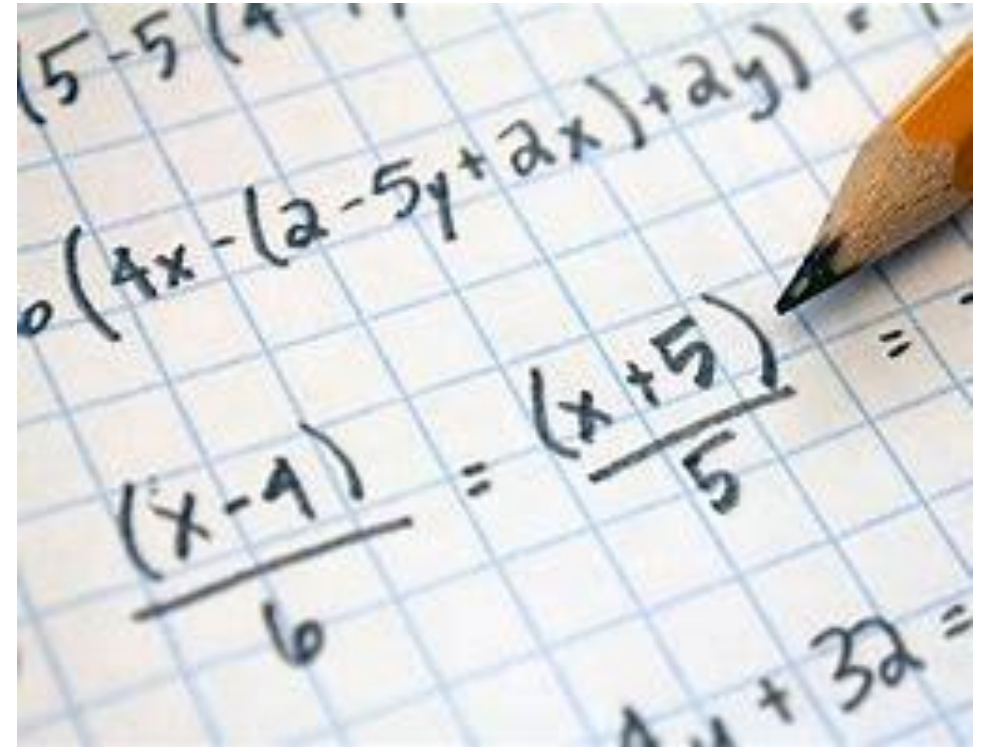
Pearson

Higher paper	Total	Average
Grade 9	197	66
Grade 8	167	56
Grade 7	137	46
Grade 6	105	35
Grade 5	73	24
Grade 4	42	14
Grade 3	26	9

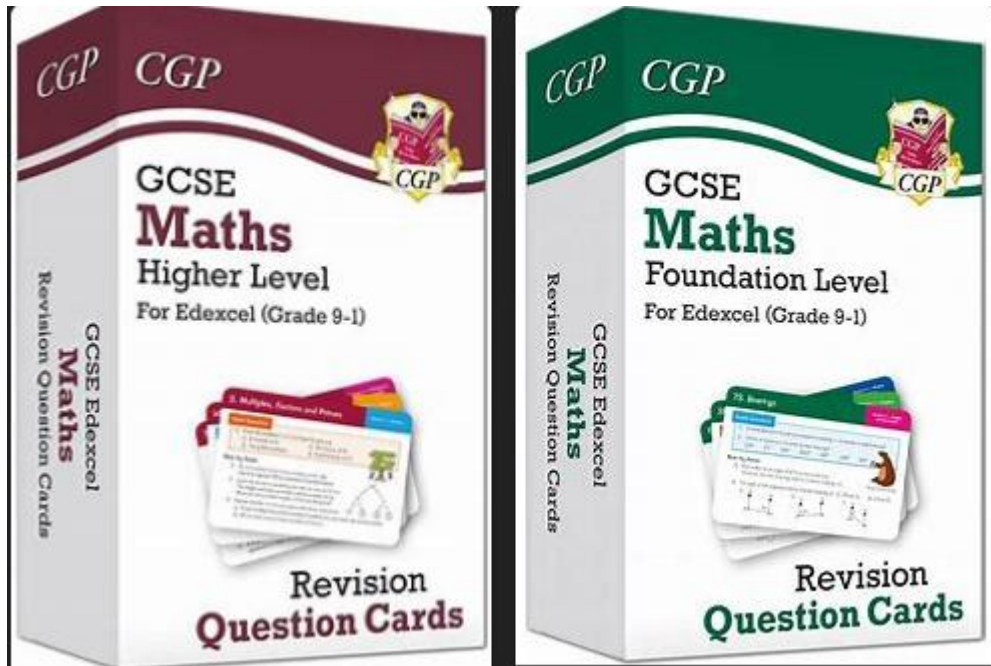
# 80 marks per paper

# Year 11 Maths intervention

- **Tuesday Afterschool 3.10 – 4pm - Everyone!!**  
Go to normal maths classroom
- **Wednesday Lunchtime Room 28 – Sparx club**
- **Wednesday Online 6 – 7pm – All Foundation**
- **Thursday Online 6 – 7pm All Higher**
- **Thursday Online 6 – 7pm All Foundation**  
(For online sessions please see teams for links)



## FLASH CARDS

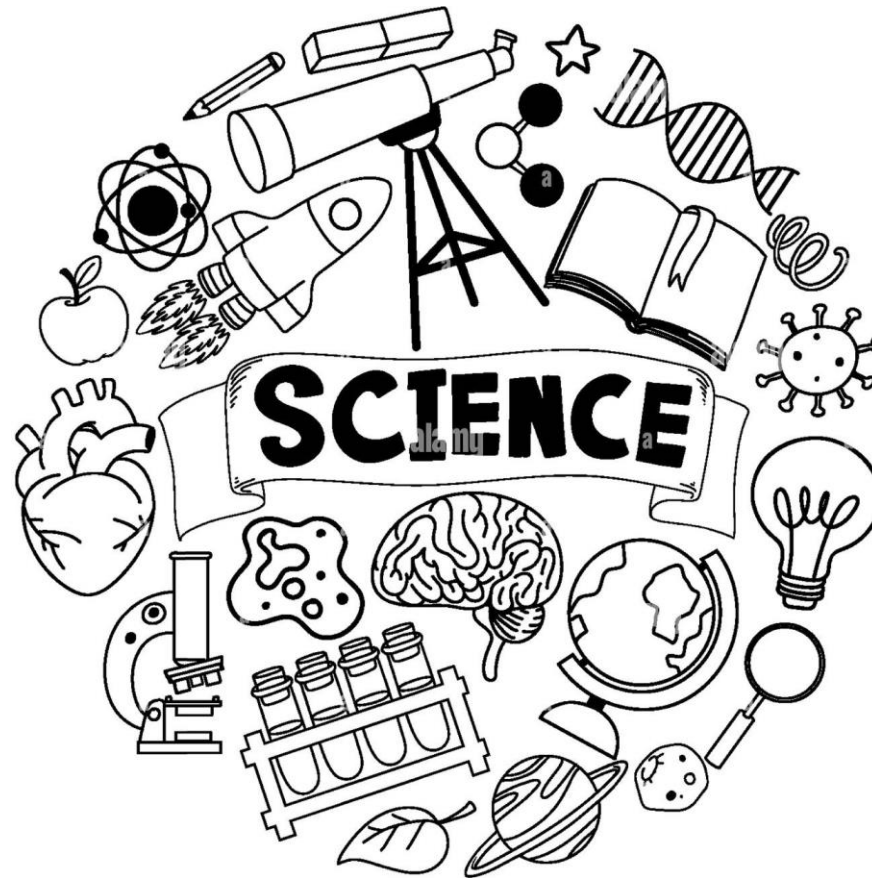


## How to be successful in maths

1. Do Homework
2. Ask questions in Class
3. Understand the Method & the Process
4. Prime the Brain
5. Practice, Practice, Practice
6. Don't Stress
7. Slow Down
8. Analyze Any Errors
9. Exercise Before Homework



# Mr Levy







# Science at Arena

In GCSE Combined Science (AQA) student will sit:

2x Biology exams (1hr 15 mins each)

2x Chemistry exams (1hr 15 mins each)

2x Physics exams (1hr 15 mins each)

At the end of Year 11 students will sit:

2x Biology exams (1hr 45 mins each)

2x Chemistry exams (1hr 45 mins each)

2x Physics exams (1hr 45 mins each)


Personalised Learning Checklists AQA Biology Paper 1



AQA Biology (8461) from 2016 Topic B4.1 Cell biology				
Topic	Student Checklist	R	A	G
4.1.1 Cell structure	Use the terms 'eukaryotic' and 'prokaryotic' to describe types of cells			
	Describe the features of bacterial (prokaryotic) cells			
	Demonstrate an understanding of the scale and size of cells and be able to make order of magnitude calculations, inc standard form			
	Recall the structures found in animal and plant (eukaryotic) cells inc algal cells			
	Use estimations and explain when they should be used to judge the relative size or area of sub-cellular structures			
	Required practical 1: use a light microscope to observe, draw and label a selection of plant and animal cells			
	Describe the functions of the structures in animal and plant (eukaryotic) cells			
	Describe what a specialised cell is, including examples for plants and animals			
	Describe what differentiation is, including differences between animals and plants			
	Define the terms magnification and resolution			
	Compare electron and light microscopes in terms of their magnification and resolution			
	Carry out calculations involving magnification using the formula: magnification = size of image/ size of real object -inc standard form			
	Bio ONLY: Describe how bacteria reproduce and the conditions required			
	Bio ONLY: Describe how to prepare an uncontaminated culture			
	Bio ONLY: Calculate cross-sectional areas of colonies or clear areas around colonies using $\pi r^2$			
4.1.2 Cell division	Bio ONLY: Calculate the number of bacteria in a population after a certain time if given the mean division time			
	Bio & HT ONLY: Express answers for last two points in standard form			
	Required practical 2: investigate the effect of antiseptics or antibiotics on bacterial growth using agar plates and measuring zones of inhibition			
	Describe how genetic information is stored in the nucleus of a cell (inc genes & chromosomes)			
	Describe the processes that happen during the cell cycle, including mitosis (inc recognise and describe where mitosis occurs)			
4.1.3 Transport in cells	Describe stem cells, including sources of stem cells in plants and animals and their roles			
	Describe the use of stem cells in the production of plant clones and therapeutic cloning			
	Discuss the potential risks, benefits and issues with using stem cells in medical research/treatments (inc diabetes and paralysis)			
	Describe the process of diffusion, including examples			
	Explain how diffusion is affected by different factors			
	Define and explain "surface area to volume ratio", and how this relates to single-celled and multicellular organisms (inc calculations)			
	Explain how the effectiveness of an exchange surface can be increased, inc examples of adaptations for small intestines, lungs, gills roots & leaves			
	Describe the process of osmosis (inc calculation of water uptake & percentage gain and loss of mass of plant tissue)			
	Required practical 3: investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue			
	Describe the process of active transport, including examples - gut and roots			
	Explain the differences between diffusion, osmosis and active transport			



# Science at Arena




**ARENA**  
ACADEMY

Arena Academy,  
Birmingham (CoRe)

GCSE in Combined Science | AQA Trilogy

Year Group 11 | Class 11Y/Sc CLY



pupil  
progress

08.04.2025

Mr Levy

Live Tracking

Minimum Target Grade		Teacher Predicted Grade	
4-4		8-8+	

Target Grid	
Grade	Marks away (Average Unit)
8-8	Achieved
9-8	Achieved
9-9	7

Unit	Biology 1	Chemistry 1	Physics 1	Biology 2	Chemistry 2	Physics 2
Grade	8	9	7	9	8	8

24-25 PC2 Working-AI-Grade (WAG) GCSE Courses	24-25 PC2 Working-AI-Grade (WAG) Vocational Courses	24-25 Attitude to Learning: PC1	24-25 Attitude to Learning: PC2
8-8		Exemplary	Exemplary

**Topic summary**

1 - Development of Scientific Thinking	78
2 - Experimental skills and strategies	
3 - Analysis and Evaluation	30
4 - Scientific vocabulary, quantities, units, symbols and nomenclature	
<b>Working Scientifically / %</b>	<b>53</b>
1 - Cell Biology	61
2 - Organisation	67
3 - Infection and response	83
4 - Bioenergetics	35
5 - Homeostasis and response	64
6 - Inheritance, variation and evolution	84
7 - Ecology	75
<b>Biology / %</b>	<b>69</b>
1 - Atomic structure and the periodic table	90
2 - Bonding, structure, and the properties of matter	78
3 - Quantitative chemistry	
4 - Chemical changes	71
5 - Energy changes	54
6 - The rate and extent of chemical change	100
7 - Organic chemistry	59
8 - Chemical analysis	75
9 - Chemistry of the atmosphere	33
10 - Using resources	60
<b>Chemistry / %</b>	<b>69</b>
1 - Energy	51
2 - Electricity	70
3 - Particle model of matter	
4 - Atomic structure	47
5 - Forces	49
6 - Waves	52
7 - Magnetism and electromagnetism	70
<b>Physics / %</b>	<b>54</b>

**Biology 1**

CT2 CS H / 70	Total Marks	Grade
Question Level Analysis		
Q1: Bioenergetics / 13	5	
Q2: Development of Scientific Thinking   Cell Biology / 9	7	
Q3: Infection and response / 12	10	
Q4: Analysis and Evaluation   Bioenergetics / 10	3	
Q5: Cell Biology / 9	4	
Q6: Organisation / 11	10	
Q7: Organisation / 6	5	
PC2 Y11 Mocks H / 70	44	8
Average Total Marks / 70	44	
Current Unit Grade	8	



## Use the PLC in the Science GCSE Parent Pack (Class Charts)

Remember: There is a different between recognizing the statement content and knowing it.

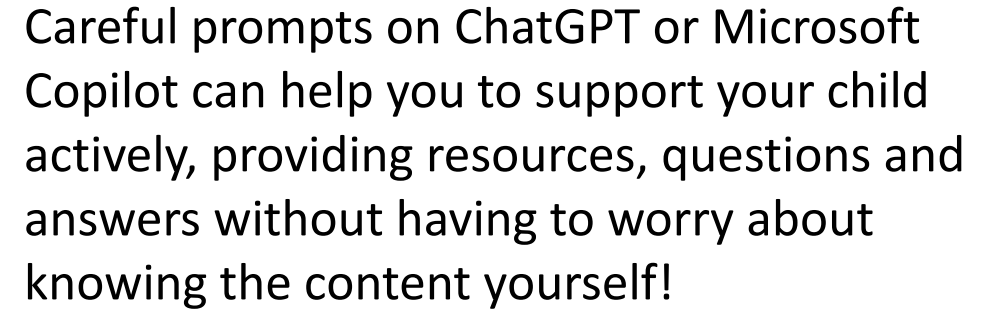
Families: Use questions and vocabulary definition to support this process



COLLABORATION · OPPORTUNITY · RESPECT · EXCELLENCE



# ChatGPT



Remember to ensure that the prompts are specific!

## B4 Bioenergetics

# Grade 5

# Combined Science

# GCSE



# Science at Arena

ChatGPT

Copilot

Help me to revise AQA GCSE Combined Science with my daughter



Search

Reason



Provide me with 10 Grade 5 questions on B4 Bioenergetics from AQA Combined Science for the GCSE exams

What is the Answer to question 2

I don't understand, can you explain what this means

what would this question look like on the Higher Combined Science paper (AQA)

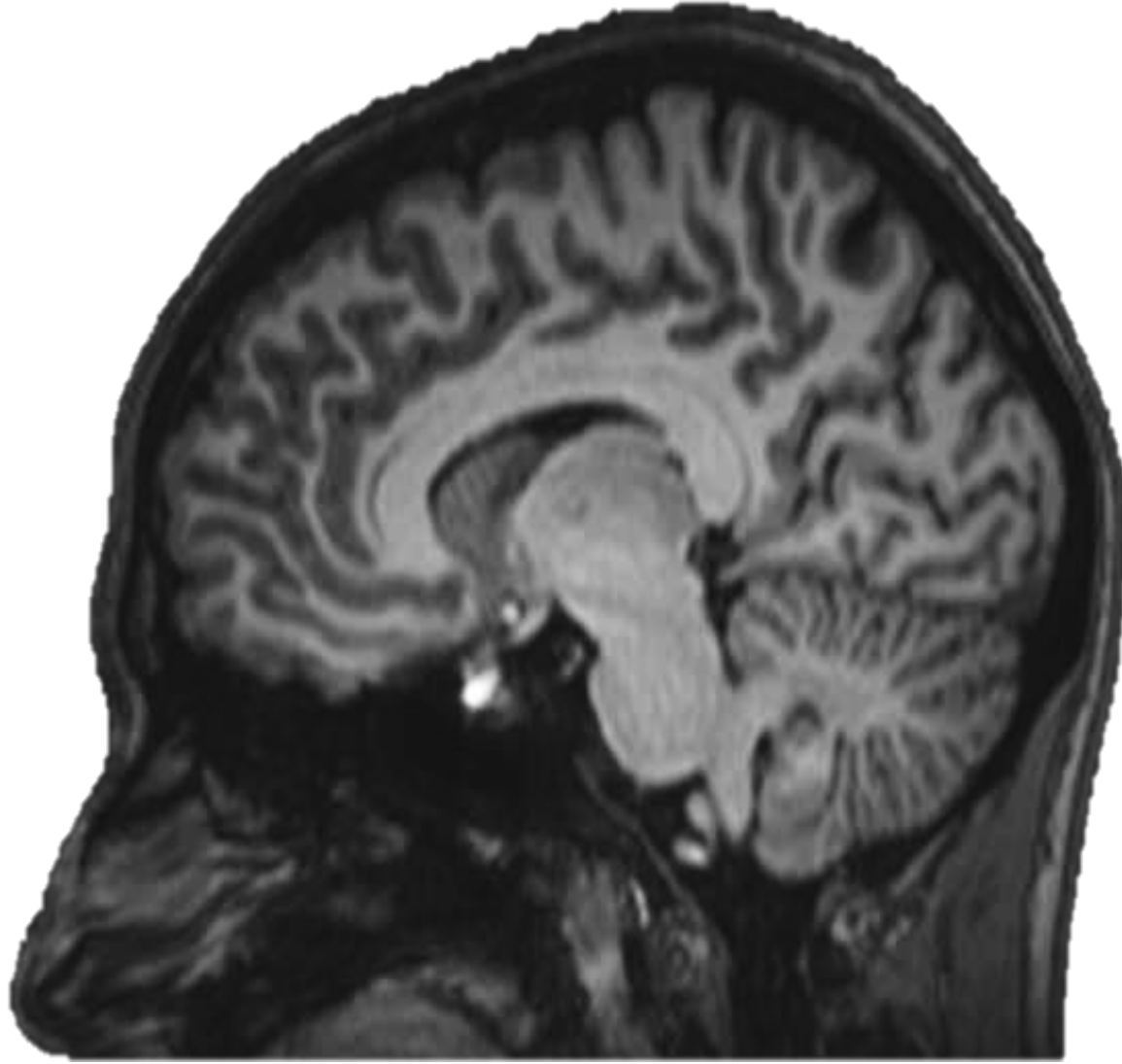




# Science at Arena

*Repetition*

*Repetition*



*Repetition*

*Repetition*

# Mr Amos



## Paper 1: Explorations in Creative Reading and Writing

### What's assessed

#### Section A: Reading

- one literature fiction text

#### Section B: Writing

- descriptive or narrative writing

### Assessed

- written exam: 1 hour 45 minutes
- 80 marks
- 50% of GCSE

### Questions

#### Reading (40 marks) (25%)— one single text

- 1 short form question (1 x 4 marks)
- 2 longer form questions (2 x 8 marks)
- 1 extended question (1 x 20 marks)

#### Writing (40 marks) (25%)

- 1 extended writing question (24 marks for content, 16 marks for technical accuracy)

## Paper 2: Writers' Viewpoints and Perspectives

### What's assessed

#### Section A: Reading

- one non-fiction text and one literary non-fiction text

#### Section B: Writing

- writing to present a viewpoint

### Assessed

- written exam: 1 hour 45 minutes
- 80 marks
- 50% of GCSE

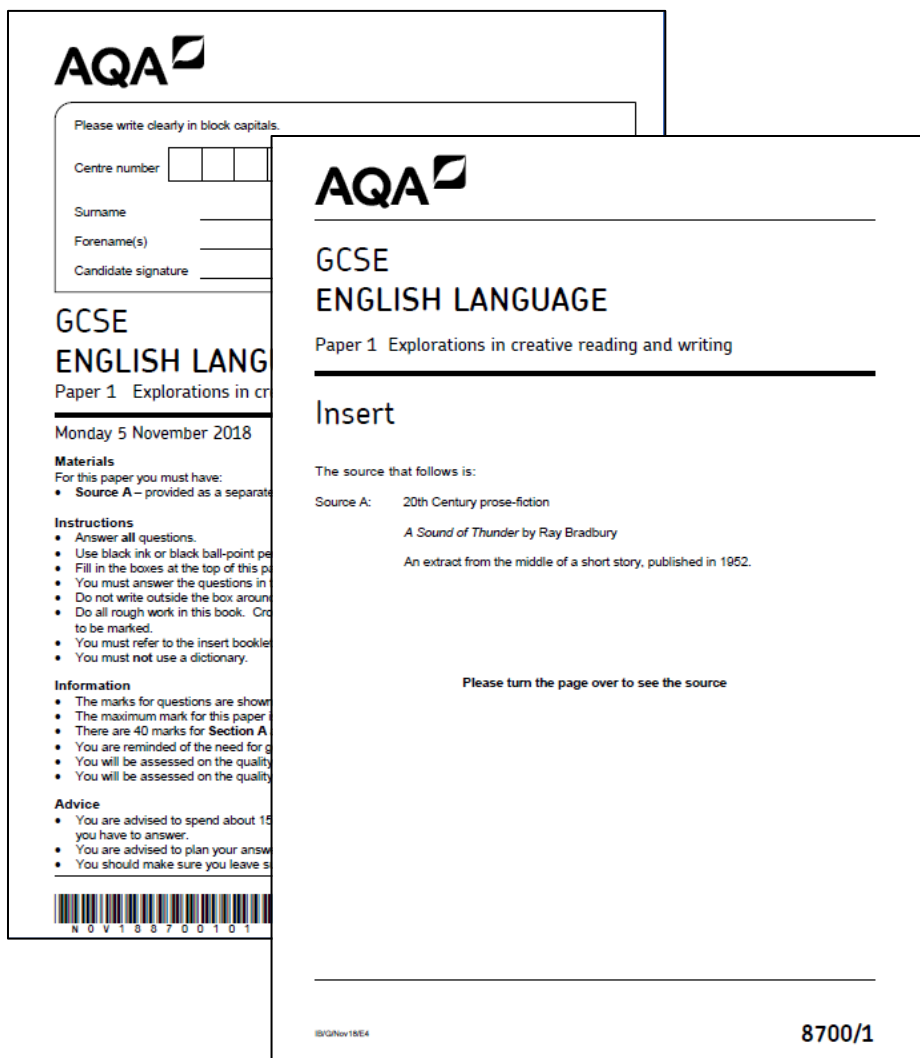
### Questions

#### Reading (40 marks) (25%) – two linked texts

- 1 short form question (1 x 4 marks)
- 2 longer form questions (1 x 8, 1 x 12 marks)
- 1 extended question (1 x 16 marks)

#### Writing (40 marks) (25%)

- 1 extended writing question (24 marks for content, 16 marks for technical accuracy)



The image shows two overlapping copies of the AQA GCSE English Language Paper 1 specimen paper. The top copy is the front cover, featuring the AQA logo, the title 'GCSE ENGLISH LANGUAGE', and the subtitle 'Paper 1 Explorations in creative reading and writing'. It also includes a date 'Monday 5 November 2018' and a barcode. The bottom copy is the back cover, which contains the 'Insert' section. This section includes the source text 'A Sound of Thunder by Ray Bradbury' and an extract from the middle of a short story published in 1952. It also has a note to 'Please turn the page over to see the source' and the code '8700/1'.

## LANGUAGE TOP TIPS

- Use practice papers – time yourself for each question using teacher’s guidance from lessons in school. Time yourself exactly for each question.
- Start with the Question 5 writing tasks – they are half of students’ English Language grade overall.
- Practise evaluation and comparing perspectives skills.
- Remember what a summary and perspective means for Paper 2.

## Paper 1: Shakespeare and the 19th-century novel

### What's assessed

- Shakespeare plays
- The 19th-century novel

### How it's assessed

- written exam: 1 hour 45 minutes
- 64 marks
- 40% of GCSE

### Questions

**Section A Shakespeare:** students will answer one question on their play of choice. They will be required to write in detail about an extract from the play and then to write about the play as a whole.

**Section B The 19th-century novel:** students will answer one question on their novel of choice. They will be required to write in detail about an extract from the novel and then to write about the novel as a whole.

## Paper 2: Modern texts and poetry

### What's assessed

- Modern prose or drama texts
- The poetry anthology
- Unseen poetry

### How it's assessed

- written exam: 2 hour 15 minutes
- 96 marks
- 60% of GCSE

### Questions

**Section A Modern texts:** students will answer one essay question from a choice of two on their studied modern prose or drama text.

**Section B Poetry:** students will answer one comparative question on one named poem printed on the paper and one other poem from their chosen anthology cluster.

**Section C Unseen poetry:** Students will answer one question on one unseen poem and one question comparing this poem with a second unseen poem.



## WHAT DOESN'T WORK?

- Re-reading notes doesn't really work – this doesn't embed in *long term* memory and doesn't help understanding.
- Highlighting information.
- Cramming information (in long, intense sessions).

## WHAT DOES WORK?

- Retrieval practice – literally 'retrieving' information from your brain and then checking / adding to that information.
- Spaced retrieval – revisiting information over time, in shorter sessions.

Pick a text / theme / character / context and give yourself three minutes to write down everything you can remember

Choose a key quote and annotate with meaning / connotations / synonyms / context

Using up to 50 words, summarise the plot of a poem / stave / act

Pick a theme / character and make a chain of quotes from the text in chronological order

Using the essay focus word, spend 5 minutes planning an essay

Using a blank copy of an unseen poem, annotate as many language / form / structure techniques as you can

Using the essay focus word, write a practice essay paragraph (remember, the poetry essay is COMPARATIVE)

Write analytical statements about the text using the key vocabulary lists

Flashcard retrieval practice – do a few a day!

*'SOLITARY AS AN  
OYSTER'*

Have a quote on one side, and try  
and recall as much as you can

reinforced with 'hard  
and sharp as flint' –  
similes repeated

indicates S's isolation  
– self-imposed

*'solitary as an oyster'*

simile - comparison

hard exterior, but the  
potential for a pearl when  
they open

appears at the start of the  
novella – suggests the  
potential for change

Check your answers – if you couldn't remember  
much, return to the card in the next few days

## Scrooge's character development timeline:

Stave 1

Stave 3

Stave 5



Stave 2

Stave 4

# Question and Answer Session