

Supporting Success



WELCOME



Supporting Success



Together we can...

Supporting Success



We have **influence** because of our **togetherness** that we cannot have alone.



Together we can...



RESULTS DAY!

GCSE Exams

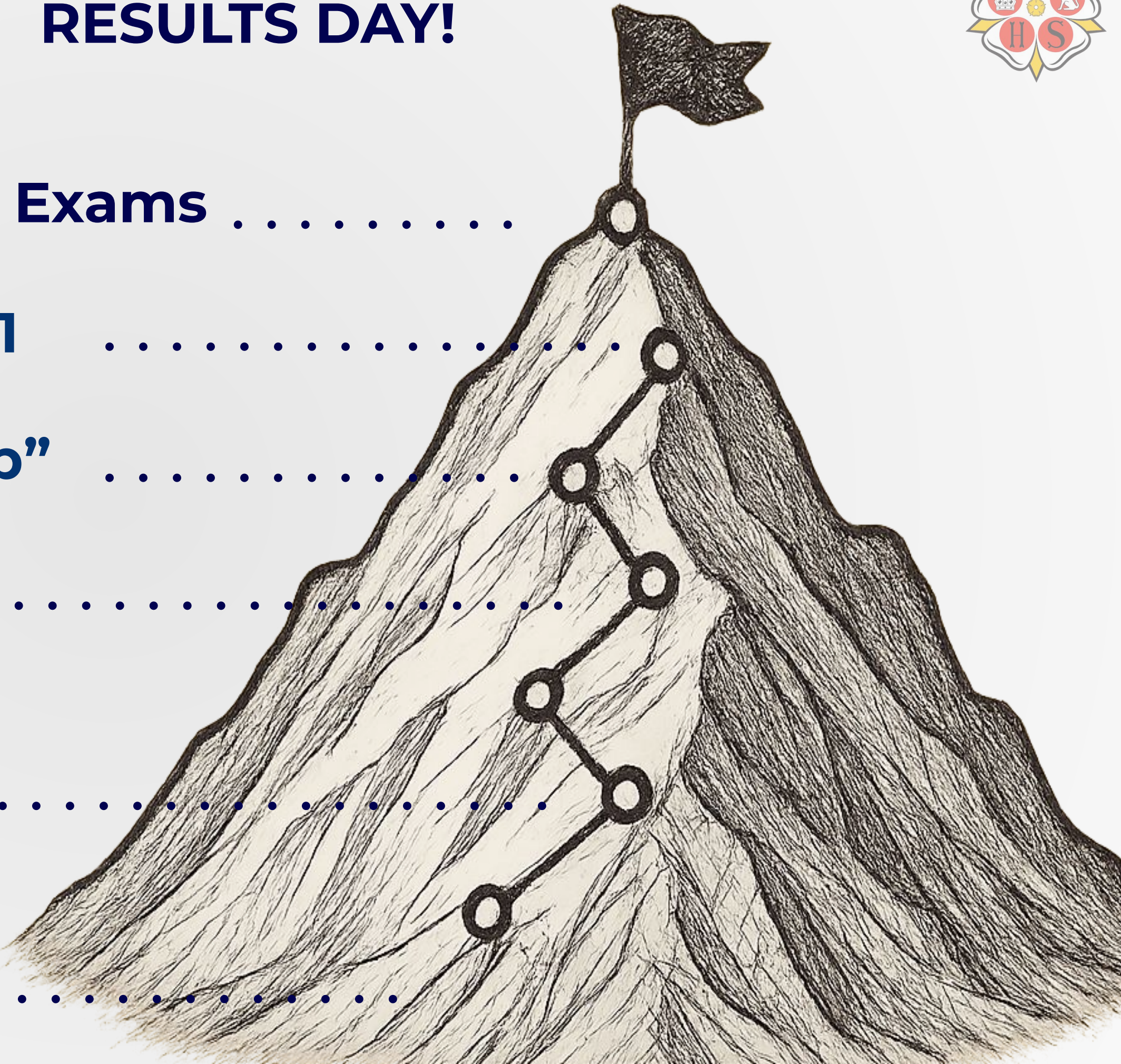
PPE 3 Year 11

PPE 2 Year 11 “Base Camp”

PPE 1 exams in July Year 10

Assessments and Exams
along the way

Year 9 GCSE starts





Supporting Success

Understanding the Grade

Old grades	Numerical grades
A*	9
A	8
B	7
C	6
	5 Strong Pass
	4 Standard Pass
D	3
E	2
F	1
G	1
U	U



Student Progress Report Cards

Subject	FFT20 Estimate End of Y11	Predicted End of Y11 Grade Summer 2025	PPE Result July 2025
English Language	7-	7	8
English Literature	6+	N/A	6
French	6+	6	6
History	7=	7	6
Mathematics	6+	6	5
Photography	7=	7	7
Science Combined	6-	5-5	5-5
xxxxxx	6+	5	3
Progress 8 Score: +0.58			



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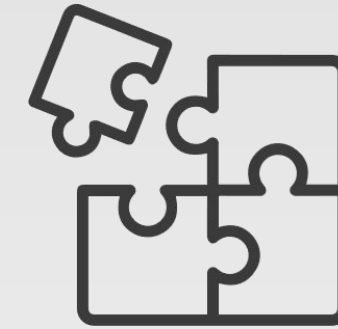
Why Attendance Matters

Attendance groups	Number of students	Average GCSE grade at Sherburn High School	Value added
Above 95%	83	5.7	● +0.5
90.1 - 95%	32	4.8	0.0
80.1 - 90%	23	4.1	0.0
50.1 - 80%	10	3.3	● -0.9
0 - 50%	1	3.4	● -2.1

Together we can...

Revision Carousel

Starting 5th October, a week of revision strategies for students to use.



The power of stories and codes.

How to self-quizz and assess your progress



How to reduce the clutter and make notes useful



How to make and use flashcards effectively



How to revise for English Language?

Making revision timetables, using time wisely.



Period 7



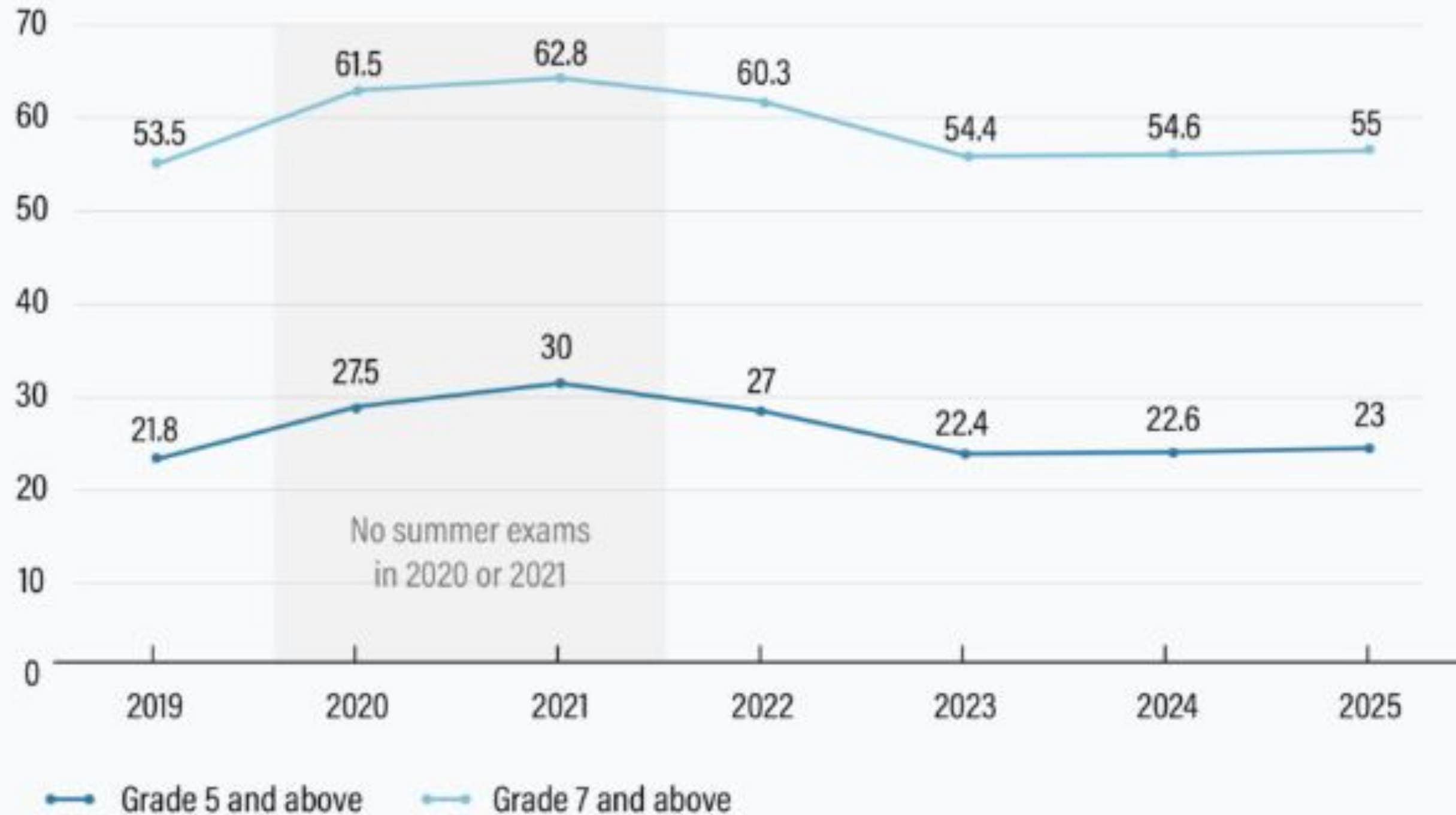
Learn from the experts in their subjects. Intensive revision 6 weeks before each exam set.

		MON	TUE	WED	THU
Period 7 (6 weeks prior to an exam)	A week	Option Pool C	Option Pool D	Maths	Science
	B week	English	Option Pool A	Option Pool B	Geog





GCSE results in England at different grades since 2019

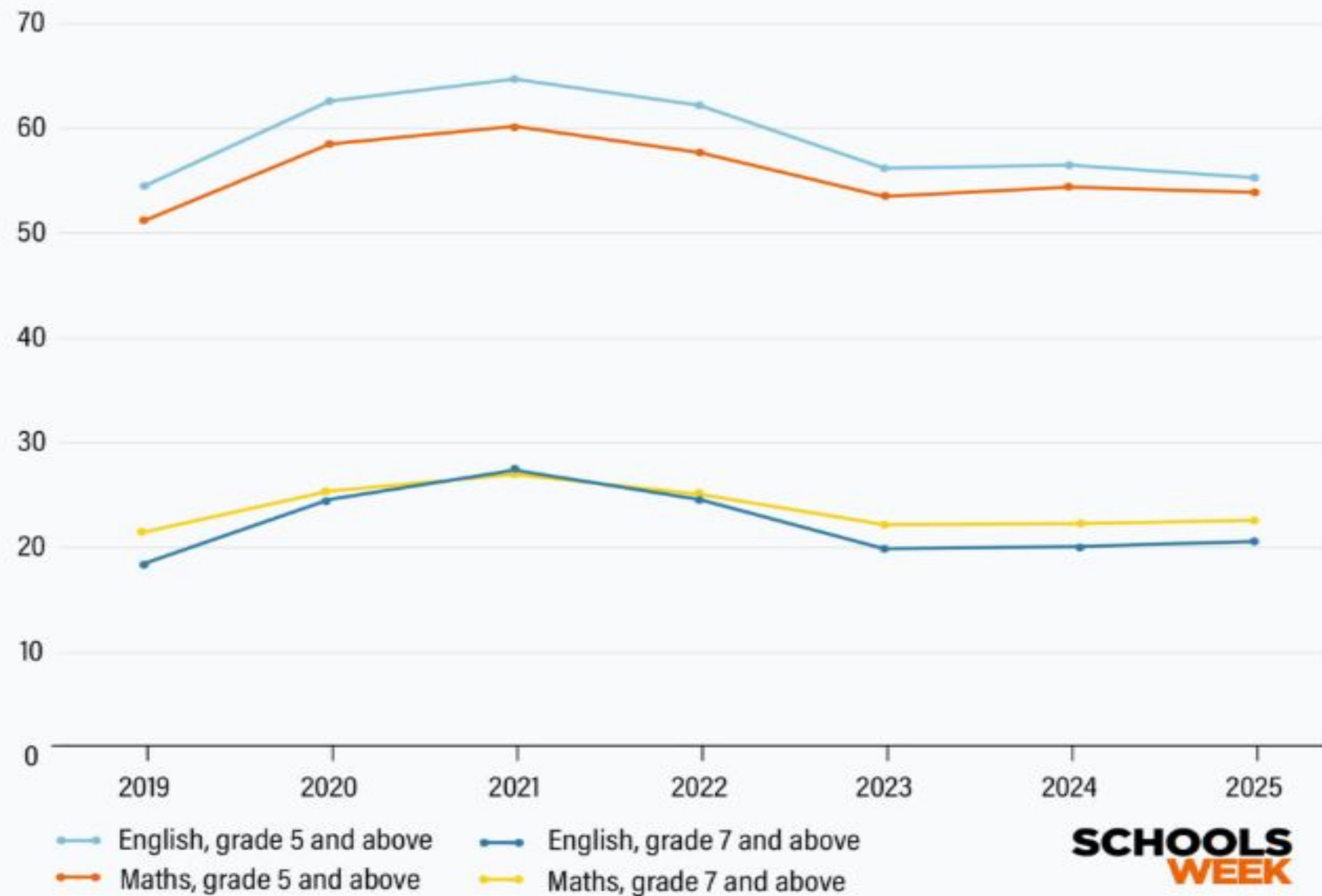


Source: JCQ data on GCSE results for England 16-year-olds

SCHOOLS
WEEK



English and maths results for year 11s in England since 2019



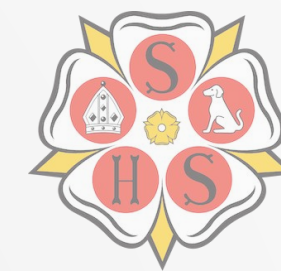


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The Good news!

	Sherburn High School 2026	National average
5 GCSE'S Including English and Maths at 4+	74%	57%
Grade 4+ in English and Maths	79%	67%
Grade 7+ in English	21%	18%
Grade 7+ in Maths	29%	22%

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A Proven Track Record

2019	2022	2023	2024	2025	2026
+0.10	+0.47	+0.17	+0.57	+0.64	+0.59

Top 10 in the North and 4th in Leeds



≡ All Sections

THE YORKSHIRE POST

Latest News Heritage Property Lifestyle Sport Opinion Business Country & Farm

Top comprehensive secondary schools in the North

1. Tapton School, Sheffield (133rd= nationally)
2. St Mary's College, Hull (171st)
3. Fulford School, York (187th)
- 4 . Horsforth School, Leeds (191st)
5. Archbishop Holgate's School , York (192nd)
6. High Storrs School, Sheffield (215th)
7. Silverdale School (234th)
8. All Saints RC School, York (241st)
9. Sherburn High School, Leeds (245th)
- 10 . Harrogate Grammar School, Harrogate (267th=)



Yorkshire Evening Post • Follow

15 Jul •

Leeds' top four schools for 2025/26 according to Sunday Times





Where can my results take me?

LEVEL 2 OPTIONS

- **Level 2 Courses:** GCSE grades 1 – 9
- **Apprenticeships & Training**
- **Level 2 Diplomas**

LEVEL 3 OPTIONS

- **A Levels**
- **Level 3 Diplomas**
- **Level 3 Apprenticeships**

Level 3 Entry Requirements

5 GCSEs at Grade 4 or above, including Maths and English Language



Supporting Success:

Sixth Form





Sixth Form Open Evening

Thursday 15th October 2026

6:00pm - 7:30pm

Welcome talk at 6:00pm in the Main Hall



Join us in
Sixth Form



SHS_SIXTHFORM_THRIVING

Supporting Success:



Finishing Year



Finishing Year 11





Finishing Year 11

School Holidays



Finishing Year 11



MYTH



Finishing Year 11



Finishing Year 11



Finishing Year 11



Finishing Year 11



Finishing Year 11





Finishing Year 11

Thursday 21st August 2026

**GCSE
RESULTS
DAY**

Finishing Year 11





Finishing Year 11

Good luck – Cards / Emails

FAO: Mrs Smith

**Needed by Wednesday 14th
January**

(Drop off at Progress Evening,
or in school reception or via
email or post)



***“This is an
environment
where success is
inevitable.”***





Supporting Success:

**This is an environment
where success is
inevitable**





Supporting Success:

ENGLISH



GCSE English



Students will complete **two separate** GCSEs in English.

AQA English Language:
Reading and Writing skills

AQA English Literature:
Exploration and analysis of a range of texts.



GCSE English Language



Students will have **two exams** at the end of Year 11.

Paper 1: 50%

Section A: Students read and respond to a fiction text extract

Section B: Students write a description or short story.

Paper 2: 50%

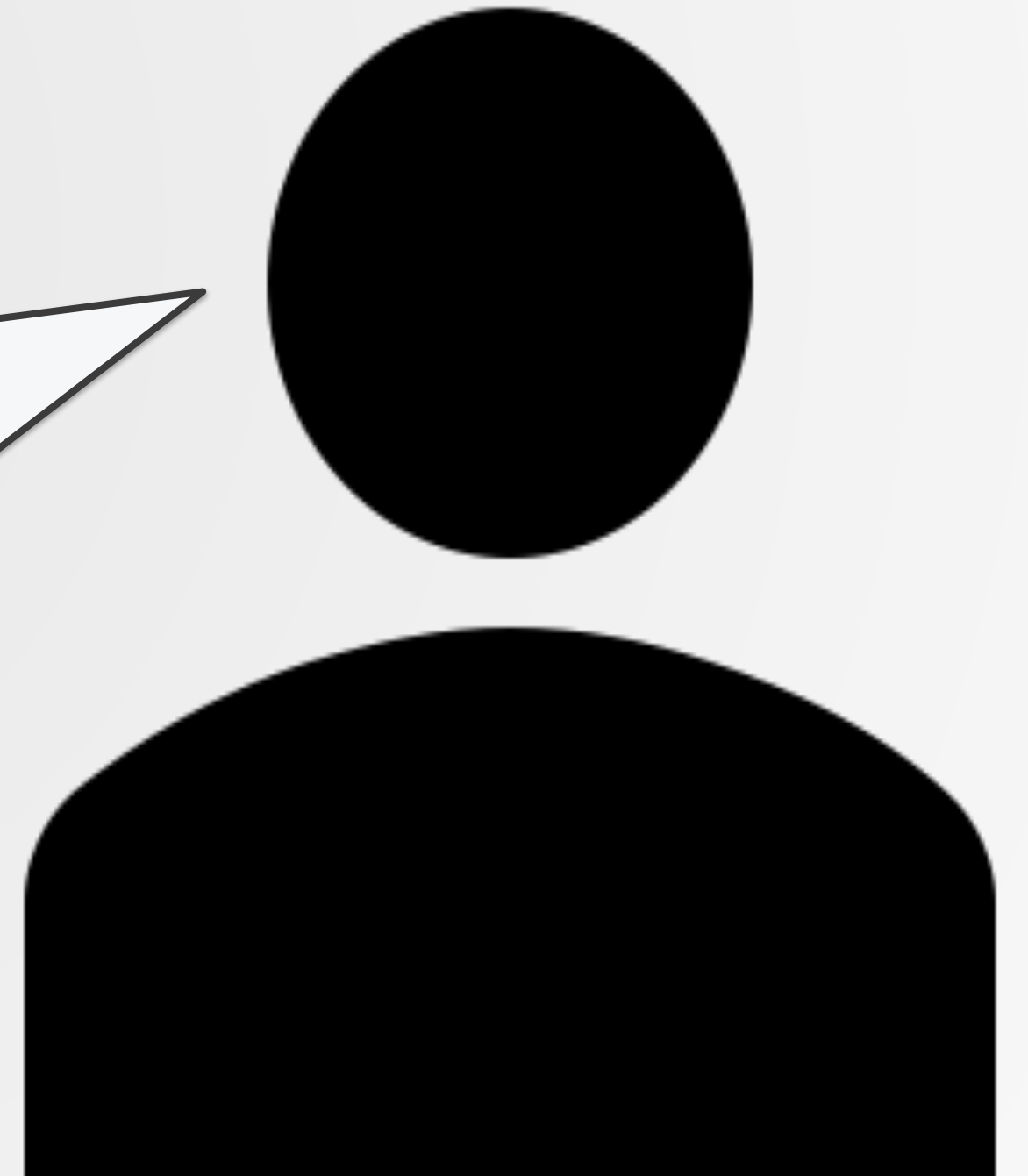
Section A: Students read and respond to two non-fiction texts

Section B: Students write their own article, letter, or speech.

GCSE English Language



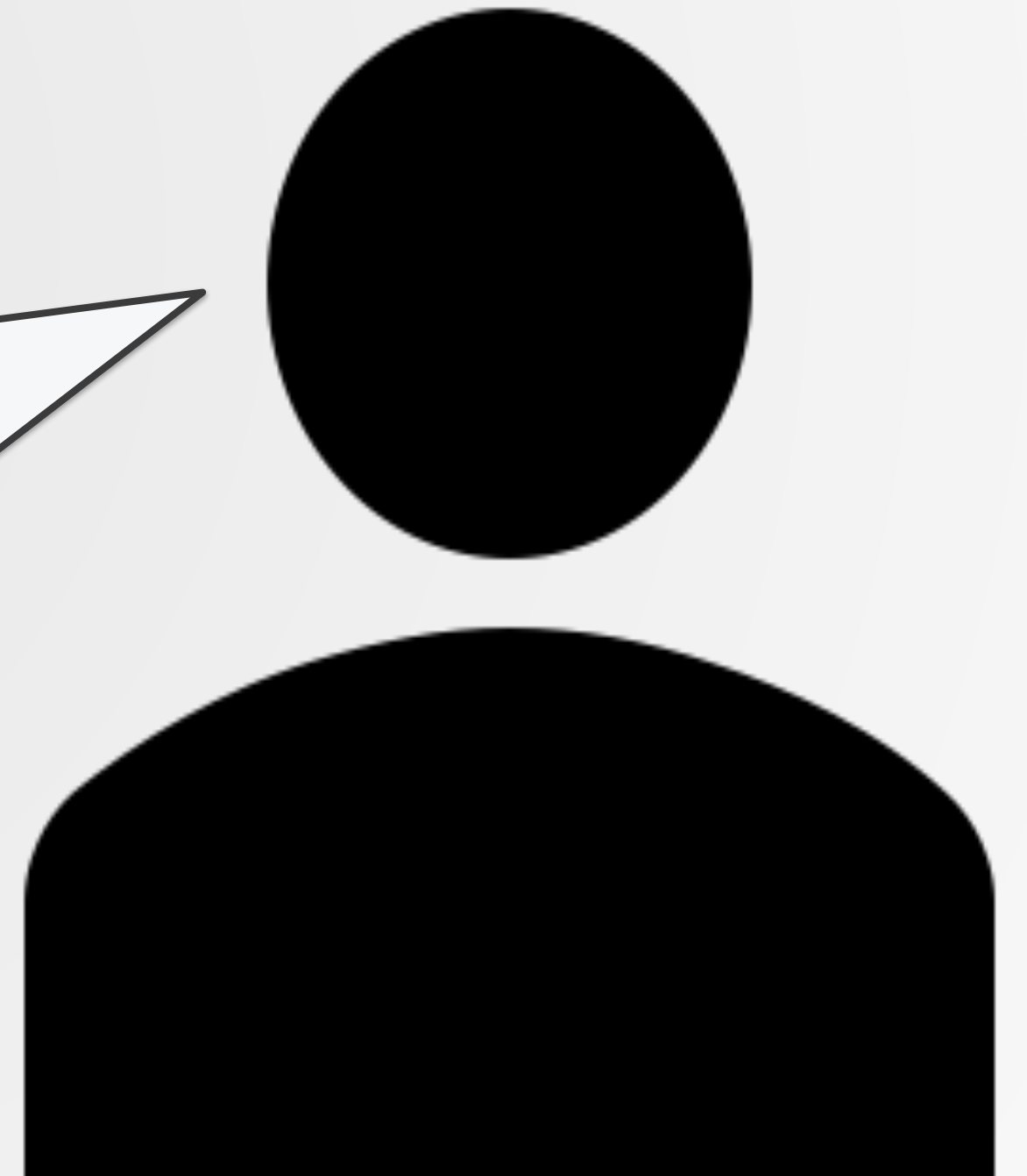
*You can't revise
for English*



GCSE English Language



*You can't
miss it*



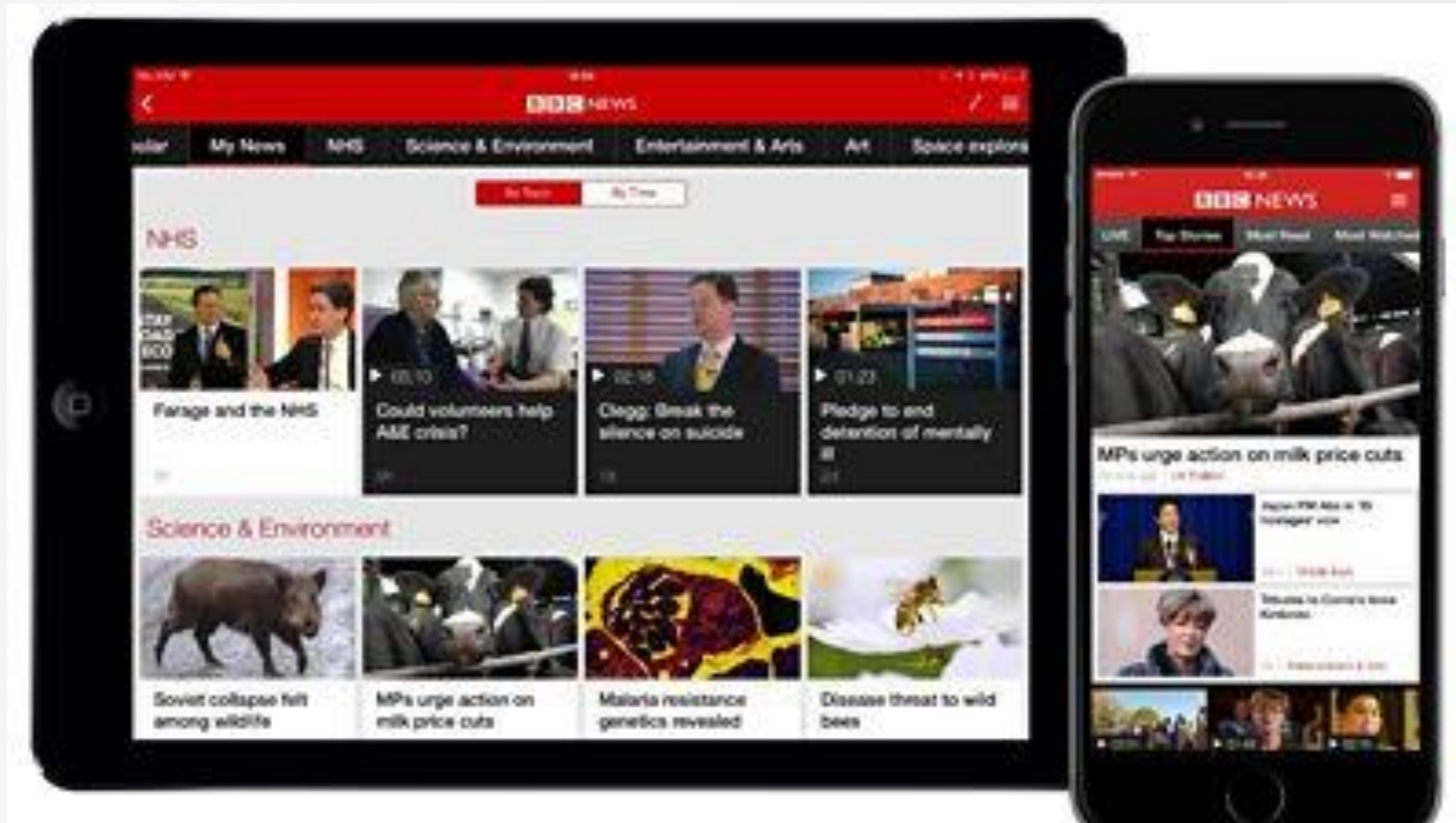
GCSE English Language



So what **CAN** you do to revise English Language?

1. Read, Read, Read! It doesn't matter what you read, just make sure you're reading.
2. Be Proactive! If you've been told for years that your apostrophes aren't right – now is the time to learn how to use these properly.
3. Write! Practice your writing skills. Each of us have a “back-up” story to adapt, and the non-fiction topics will be something that everyone will know about, such as the environment.

GCSE English Language



GCSE English Literature



Students will have **two exams** at the end of Year 11.

Paper 1: 40%

Section A: Students write one essay questions on **MACBETH**

Section B: Students write one essay on **A CHRISTMAS CAROL**

Paper 2: 60%

Section A: Students answer one question on **AN INSPECTOR CALLS**

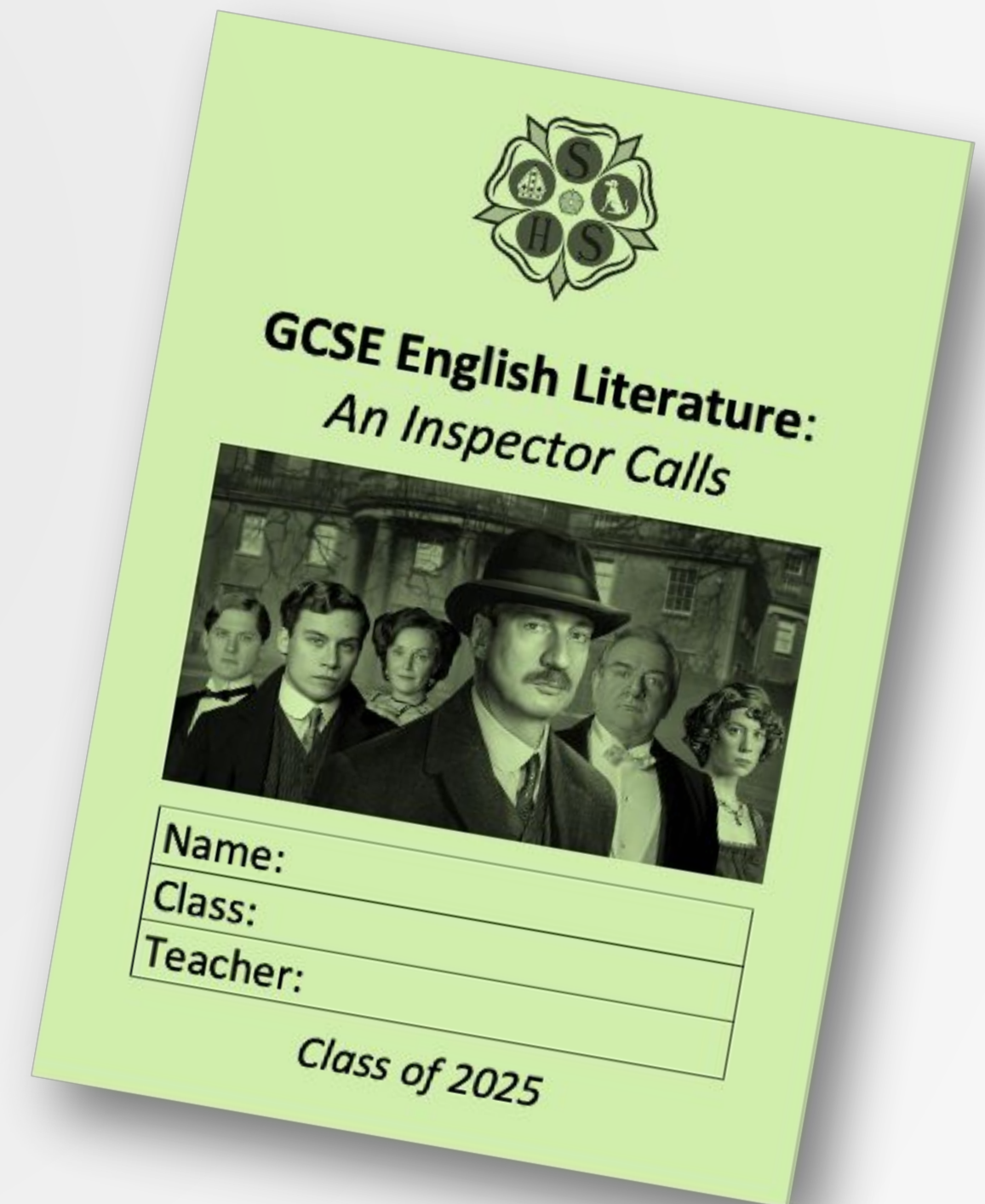
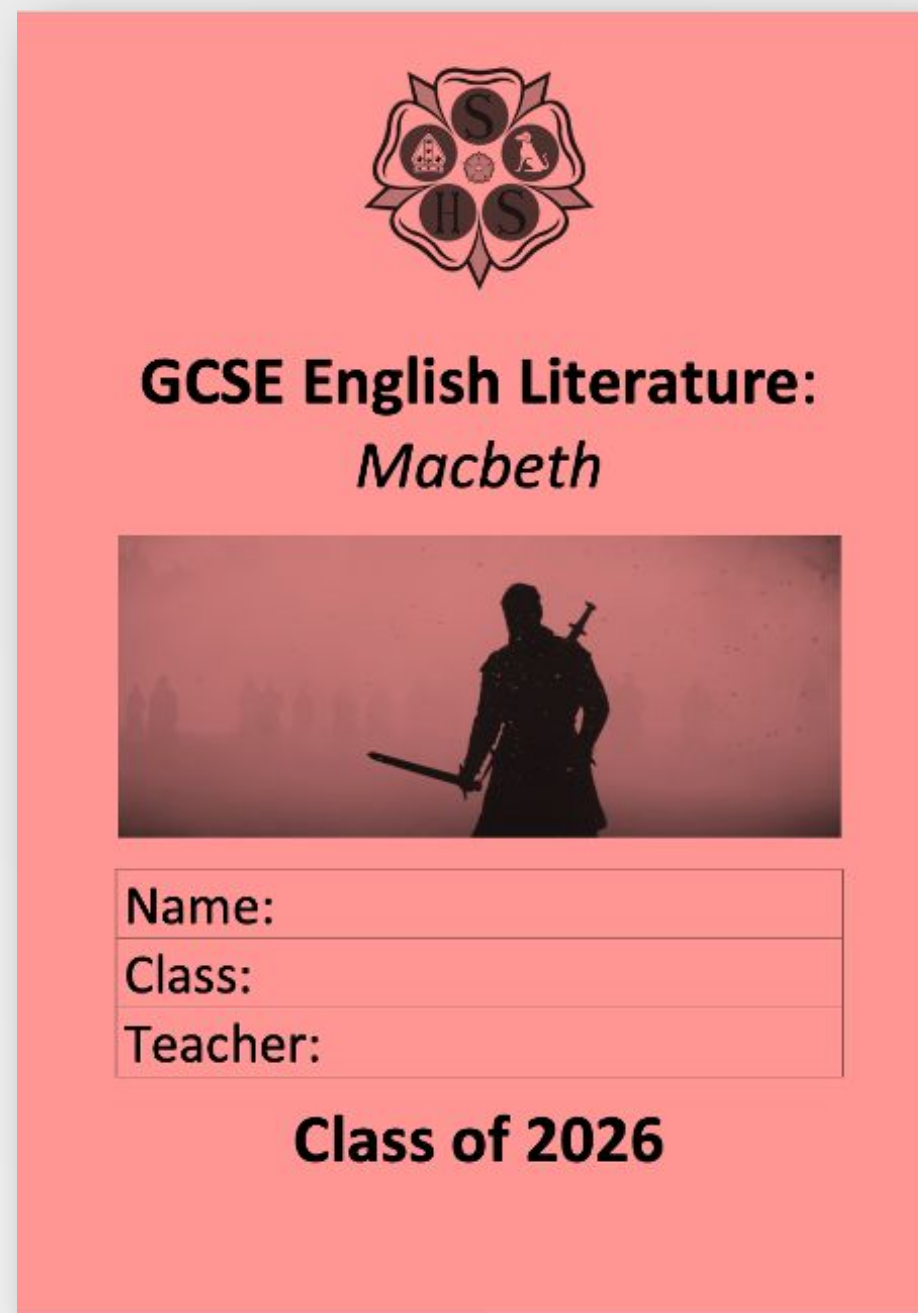
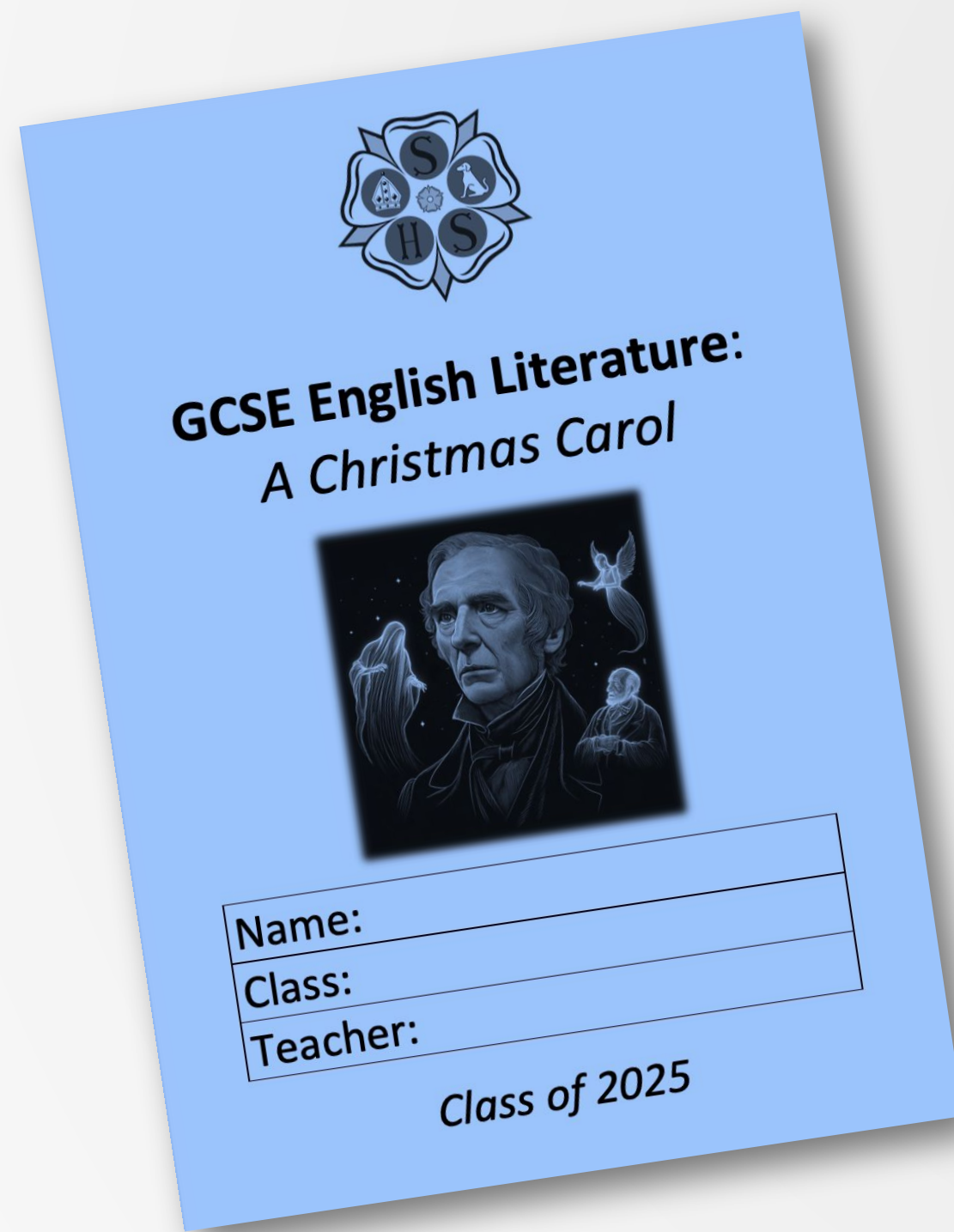
Section B: Students answer one question on **POETRY ANTHOLOGY**

Section C: Students answer two questions on **UNSEEN POETRY**

GCSE English Literature



Use your Course Readers



GCSE English



Use what your teachers have given you.



SHS Student ... > Eng... > Year 10 / 11 - Litera... ▾

Type ▾ People ▾ Modified ▾ Source ▾

Name ↑	Last mo... ▾
Individual Class Work	17 Mar 2025
Paper 1 Section A - Macbeth	2 Sept 2025
Paper 1 Section B - A Christmas Carol	13 Jan 2025
Paper 2 Section A - An Inspector Calls	13 Jan 2025
Paper 2 Section B - Power & Conflict (Poetry)	13 Jan 2025
Paper 2 Section C - Unseen Poetry	13 Jan 2025

GCSE English



Use what your teachers have given you.



SHS Student ... > Eng... > Year 10 / 11 - Litera... ▾

Type ▾ People ▾ Modified ▾ Source ▾

Name ↑ ... > Year 10 / 11 - Liter... > Paper 2 Section A - A... ▾

Individual Class Work

Paper 1 Section A - Macbe

Paper 1 Section B - A Chris

Paper 2 Section A - An Ins

Paper 2 Section B - Power

Paper 2 Section C - Unsee

Type ▾ People ▾ Modified ▾ Source ▾

Name ↑	Last mo... ▾
An Inspector Calls - Course Reader	13 Jan 2025
An Inspector Calls - Lessons	13 Jan 2025
An Inspector Calls - Revision (Activities)	13 Jan 2025
An Inspector Calls - Revision (Information / Summary)	13 Jan 2025
An Inspector Calls - Revision (Videos)	13 Jan 2025

GCSE English



WARNING



Advice for students

- Be careful about relying on the internet and social media influencers to pre-prepare an answer. This is not helpful and does not show **your** thinking about the question. The examiner is interested in what **you** think and why **you** think it.
- Spend your time revising a range of ideas about the different characters and themes in order to show what **you** think about the play or the novel.



Supporting Success:

MATHS



GCSE Maths



Students will complete **3x 1 hour 30 minutes papers**

One non-calculator paper, and two calculator papers

Higher tier (Grades 9-3) or Foundation (Grades 5-1)

Crossover of questions approximately 25%



Pearson
Edexcel

GCSE Maths



Exam Practice and revision

Question	Topic	Marks																											
1	Add fractions	3	3	3	0	3	2	0	3	3	0	3	3	3	3	3	3	3	3	2	3	3	3	0	1	3			
2a	Interpreting Y intercept in realtion to question	1	1	1	1	1	1	1	1	1	1	1	1	0	0	1	0	1	1	1	0	1	0	1	0	0			
2aii	Interpreting gradient in realtion to question	1	1	0	1	1	0	1	0	0	1	1	1	1	1	0	0	1	1	1	0	1	1	1	0	0			
2b	Find the equation of a straight line	3	2	3	3	3	2	3	3	3	3	3	1	0	3	0	3	2	3	3	1	3	1	3	3				
3	Compound area	5	1	5	4	5	3	3	3	5	5	0	5	5	1	5	1	1	3	5	5	5	5	3	5	5			
4	Speed distance time word problem	4	4	4	2	4	4	2	4	2	4	4	2	4	4	4	4	0	4	4	4	4	4	0	0	4			
5a	Area - tiling problem with ratio and fractions	5	1	5	5	4	0	5	1	1	2	1	5	5	1	5	0	0	5	5	5	5	4	1	0	1			
5b	Expalnation of result on tiles needed if gaps left	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0			
6	Travel graph with speed distance time	4	4	2	2	4	2	1	4	4	3	1	1	3	2	2	0	1	0	3	4	3	1	1	2	0			
7	Estimating	3	0	2	2	2	0	2	2	3	2	2	0	2	0	3	2	0	2	2	2	2	0	0	0	2			
8	Translating shapes using vectors	2	2	2	2	2	2	2	2	2	2	2	2	2	0	2	2	0	2	2	0	1	0	0	0	2			

GCSE Maths



Independent Revision

GCSE Maths



Q	Topic	Out of	Mark
1	Convert cm to ml	1	0
2	Simplify algebra	1	0
3	Reflect in mirror line	1	1
4	Write value of a digit in a number	1	1
5	Order percentage decimal fraction	1	1
6	Interpret pictogram	1	1
7	Money problem - how many can you buy with £20	3	3
8a	Complete bar chart	2	2
8b	Explain incorrect interpretation	1	1
9	Draw pattern and complete table for sequence	2	2
10	Difference in temperature (negative)	2	2
11	Difference in electricity used then multiply by cost	4	3
12a	Add fractions	2	2
12b	Multiply fractions and simplify	2	2
13	Calculating probability	2	2
14	Substitution	2	1
15a	Estimate calculation	2	0
15b	Given one calculation calculate another with same digits	1	0
16	SDT	4	0
17a	Complete frequency tree	3	3
17b	Probability from frequency tree	2	1
18	Recipe question	2	0
19	Increase by a percentage	3	0
20	Fraction problem	3	0
21	Draw stem and leaf	3	2
22	Calculate volume from plan and side view of cylinder	3	0
23	Solve inequality	2	1
24	Product of primes	2	0
25	Ratio and fraction problem solving	5	0
26	Standard form	4	0
27	Angles in polygons	3	0
28ab	Complete table and draw quadratic graph	4	2
28c	Solve quadratic = 0 using graph	2	0
29	Mass density volume	3	0
30	Exact value of sine 30	1	0
0	Total	80	33

GCSE Maths



Orange books. Revision Guides

Dividing with decimals

▲ If the number you're dividing use bus stop

▲ If you are dividing by a dec use the method below

Example 1:

$$4 \div 0.8 = \frac{4}{0.8}$$

write as a fraction

$$= \frac{4 \times 10}{0.8 \times 10} = \frac{40}{8} = 5$$

Example 2:

$$0.12 \div 0.004 = \frac{0.12}{0.004} \times 1000 = \frac{120}{4} = 30$$

Example 18

Factorise $x^2 + 9x + 18$

$$(x + 3)(x + 6)$$

needs x 's a beginning of they make x^2

These numbers are found quickly and are made from the numbers in the brackets.

2 brackets as it's a quadratic

These two numbers have to add to get 9 and multiply to get 18.

Check!

$$(x + 3)(x + 6) = x^2 + 6x + 3x + 18 = x^2 + 9x + 18$$

GCSE Maths



Maths Genie

Grade 4

Videos	Exam Questions	Exam Questions Booklet	Solutions
Compound Interest and Depreciation	Exam Questions	Compound Interest and Depreciation	Solutions
Indices	Exam Questions	Indices	Solutions
HCF and LCM	Exam Questions	HCF, LCM	Solutions
Functional Maths Questions	Exam Questions	Functional Questions	Solutions
Inequalities	Exam Questions	Inequalities	Solutions
Forming and Solving Equations		Forming and Solving Equations	Solutions
Types of Sequences			
Generating Sequences			
Sequences (Nth Term)	Exam Questions	Sequences (nth term)	Solutions
Expanding and Factorising	Exam Questions	Expand and Factorise	Solutions
Pythagoras	Exam Questions	Pythagoras	Solutions
Angle Problems		Angles	Solutions
Angles in Parallel Lines	Exam Questions	Angles in Parallel Lines	Solutions
Angles in Polygons	Exam Questions	Angles in Polygons	Solutions
Surface Area	Exam Questions	Surface Area	Solutions

GCSE Maths



15. Solve $3y + 10 = 5y + 3$

16. Solve $2y + 17 = 6y + 5$

GCSE Maths



14. Solve

$$5y + 1 = 3y + 13$$

$$\begin{array}{rcl} 5y + 1 & = & 3y + 13 \\ -3y & & -3y \\ \hline 2y + 1 & = & 13 \\ -1 & & -1 \\ \hline 2y & = & 12 \\ \div 2 & & \div 2 \end{array}$$

$$y = 6$$

(3 marks)

15. Solve

$$3y + 10 = 5y + 3$$

$$\begin{array}{rcl} 3y + 10 & = & 5y + 3 \\ -3y & & -3y \\ \hline 10 & = & 2y + 3 \\ -3 & & -3 \\ \hline 7 & = & 2y \\ \div 2 & & \div 2 \end{array}$$

$$y = 3.5$$

(3 marks)

GCSE Maths



Maths Genie

Grade 1/2

Videos	Exam Questions Booklet	Solutions
Addition and Subtraction	Addition and Subtraction	Solutions
Multiplication and Division	Multiplication and Division	Solutions
Rounding		
Estimating	Estimating	
Powers and Roots	Powers and Square Roots	Solutions
Factors and Multiples	Factors, Multiples and Primes	Solutions
Fractions of an Amount	Fractions of an Amount	Solutions
Fractions, Decimals and Percentages	Fractions, Decimals and Percentages	Solutions
Negative Numbers	Negative Numbers	Solutions
BIDMAS	BIDMAS	Solutions
Simplifying Algebra	Collecting Like Terms	Solutions
Angles	Angles	Solutions
Area	Perimeter, Area and Volume	Solutions
Perimeter		
Area of a Trapezium		
Averages	Mean, Median, Mode and Range	Solutions

GCSE Maths



Maths Genie

Grade 3

Videos	Exam Questions	Exam Questions Booklet	Solutions
Error Intervals	Exam Questions	Error Intervals	Solutions
Fractions		Fractions	Solutions
Writing and Simplifying Ratio			
Ratio	Exam Questions	Ratio	Solutions
Proportion		Proportion Ingredients Questions	Solutions
Percentages	Exam Questions	Percentages	Solutions
Percentage Change			
Exchange Rates	Exam Questions	Exchange Rates	Solutions
Best Buy Questions	Exam Questions	Best Buys	Solutions
Substitution		Substitution	Solutions
Solving Equations			
Solving Equations with an Unknown on Both Sides		Solving Equations	Solutions
Drawing Graphs		Drawing Graphs	Solutions
Area and Circumference of Circles		Circles	Solutions
Transformations		Rotations Reflections Enlargements Translations Mixed Transformations	Rotations Solutions Reflections Solutions Enlargements Solutions Translations Solutions Mixed Transformations Solutions
Area of Compound Shapes	Exam Questions	Area of Compound Shapes	Solutions
Probability	Exam Questions	Probability	Solutions
Two Way Tables		Two Way Tables	Solutions

GCSE Maths



Maths Genie

Grade 4

Videos	Exam Questions	Exam Questions Booklet	Solutions
Compound Interest and Depreciation	Exam Questions	Compound Interest and Depreciation	Solutions
Indices	Exam Questions	Indices	Solutions
HCF and LCM	Exam Questions	HCF, LCM	Solutions
Functional Maths Questions	Exam Questions	Functional Questions	Solutions
Inequalities	Exam Questions	Inequalities	Solutions
Forming and Solving Equations		Forming and Solving Equations	Solutions
Types of Sequences			
Generating Sequences			
Sequences (Nth Term)	Exam Questions	Sequences (nth term)	Solutions
Expanding and Factorising	Exam Questions	Expand and Factorise	Solutions
Pythagoras	Exam Questions	Pythagoras	Solutions
Angle Problems		Angles	Solutions
Angles in Parallel Lines	Exam Questions	Angles in Parallel Lines	Solutions
Angles in Polygons	Exam Questions	Angles in Polygons	Solutions
Surface Area	Exam Questions	Surface Area	Solutions
Volume of Prisms	Exam Questions	Volume of Prisms	Solutions
Cylinders	Exam Questions	Volume and Surface Area of Cylinders	Solutions
Loci and Construction		Loci and Construction	Solutions
Bearings		Bearings	Solutions
Averages from Frequency Tables	Exam Questions	Averages from Frequency Tables	Solutions

GCSE Maths



Maths Genie

Grade 5			
Videos	Exam Questions	Exam Questions Booklet	Solutions
Writing a Ratio as a Fraction or Linear Function	Exam Questions	Ratio Fraction Problems	Solutions
	Exam Questions	Ratio Problems 2	Solutions
Direct and Inverse Proportion	Exam Questions	Direct and Inverse Proportion	Solutions
Reverse Percentages		Reverse Percentages	Solutions
Standard Form		Standard Form	Solutions
Speed and Density		Speed and Density	Solutions
Changing the Subject of a Formula	Exam Questions	Changing the Subject of a Formula	Solutions
Expanding and Factorising Quadratics		Expanding and Factorising Quadratics	Solutions
Solving Quadratics		Solving Quadratics	Solutions
Drawing Quadratic Graphs		Drawing Quadratic Graphs	Solutions
Drawing Other Graphs: Cubic/Reciprocal		Cubic/Reciprocal Graphs	Solutions
Simultaneous Equations	Exam Questions	Simultaneous Equations	Solutions
Solving Simultaneous Equations Graphically		Solving Simultaneous Equations Graphically	Solutions
Midpoint of a Line Segment			
Gradient of a Line	Exam Questions	Gradient of a Line	Solutions
Equation of a Line	Exam Questions	Equation of a Line	Solutions
Spheres and Cones		Spheres and Cones	Solutions
Sector Areas and Arc Lengths		Sectors and Arcs	Solutions
Similar Shapes (Lengths)	Exam Questions	Similar Shapes (Lengths)	Solutions
SOHCAHTOA (Trigonometry)	Exam Questions	SOHCAHTOA	Solutions
Exact trig values			

GCSE Maths



Maths Genie

Grade 6

Videos	Exam Questions	Exam Questions Booklet	Solutions
Recurring Decimals to Fractions	Exam Questions	Converting Recurring Decimals to Fractions	Solutions
Fractional and Negative Indices	Exam Questions	Fractional and Negative Indices	Solutions
The Product Rule for Counting	Exam Questions	The Product Rule for Counting	Solutions
Repeated Percentage Change	Exam Questions	Repeated Percentage Change	Solutions
Expanding Triple Brackets	Exam Questions	Expanding Triple Brackets	Solutions
Parallel and Perpendicular Lines	Exam Questions	Parallel and Perpendicular Lines	Solutions
Length of a Line			
Inequalities on Graphs		Inequalities on Graphs	Solutions
Similar Shapes (Area and Volume)	Exam Questions	Similar Shapes (Area and Volume)	Solutions
Enlarging with Negative Scale Factors		Enlarging with Negative Scale Factors	Solutions
Circle Theorems		Circle Theorems	Solutions
Cumulative Frequency		Cumulative Frequency	Solutions
Box Plots	Exam Questions	Box Plots	Solutions

GCSE Maths



Maths Genie

Grade 7

Videos	Exam Questions	Exam Questions Booklet	Solutions
Surds	Exam Questions	Surds	Solutions
Bounds	Exam Questions	Bounds	Solutions
Direct and Inverse Proportion	Exam Questions	Direct and Inverse Proportion	Solutions
Quadratic Formula	Exam Questions	Quadratic Formula	Solutions
Factorising Harder Quadratics	Exam Questions	Factorising Harder Quadratics	Solutions
Algebraic Fractions	Exam Questions	Algebraic Fractions	Solutions
Rearranging Harder Formulae	Exam Questions	Rearranging Harder Formulae	Solutions
Harder Graphs: Trig/Exponential		Harder Graphs: Trig/Exponential	Solutions
Inverse and Composite Functions	Exam Questions	Inverse and Composite Functions	Solutions
Iteration	Exam Questions	Solving Equations using Iteration	Solutions
Finding the Area of Any Triangle	Exam Questions	Finding the Area of Any Triangle	Solutions
The Sine Rule	Exam Questions	The Sine Rule	Solutions
The Cosine Rule	Exam Questions	The Cosine Rule	Solutions
Congruent Triangles		Congruent Triangles	Solutions
3d Pythagoras		3d Pythagoras	Solutions
Histograms		Histograms	Solutions

GCSE Maths



Maths Genie

Grade 8/9

Videos	Exam Questions	Exam Questions Booklet	Solutions
Quadratic Simultaneous Equations	Exam Questions	Quadratic Simultaneous Equations	Solutions
Transforming Graphs $y=f(x)$		Transforming Graphs $y=f(x)$	Solutions
Proof	Exam Questions	Proof	Solutions
Completing the Square	Exam Questions	Completing the Square	Solutions
The Nth Term of a Quadratic Sequence	Exam Questions	Quadratic Sequences	Solutions
Quadratic Inequalities	Exam Questions	Quadratic Inequalities	Solutions
Velocity Time Graphs		Velocity Time Graphs	Solutions
Proof of the Circle Theorems	Exam Questions	Proof of the Circle Theorems	Solutions
Perpendicular Lines and the equation of a tangent	Exam Questions	Perpendicular Lines	Solutions
Vectors Proof Questions	Exam Questions	Vectors	Solutions
Probability Equation Questions	Exam Questions	Probability Equation Questions	Solutions

GCSE Maths



Just Maths

2. The diagram shows a square.

All the lengths are measured in centimetres.

Diagram not drawn to scale

Use an algebraic method to find the length of one side of the square.

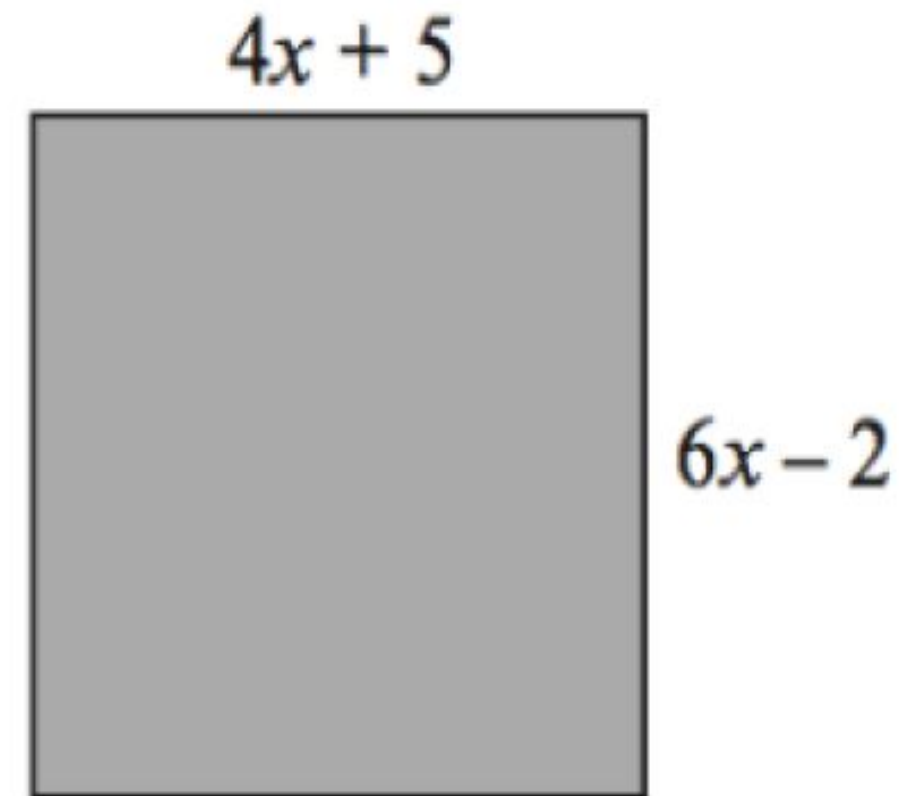


Diagram not drawn to scale

[5]

GCSE Maths



Just Maths

2. The diagram shows a square.

All the lengths are measured in centimetres.

Diagram not drawn to scale

Use an algebraic method to find the length of one side of the square.

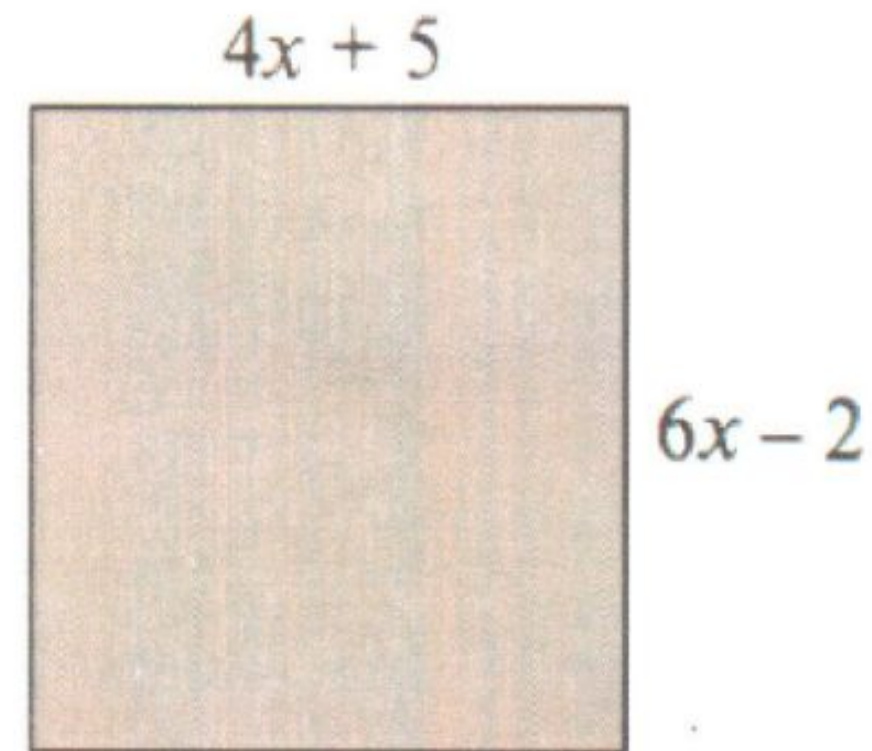


Diagram not drawn to scale

$$\begin{array}{rcl} 4x + 5 & = & 6x - 2 \\ (-4x) & & (-4x) \end{array}$$

$$\begin{array}{rcl} 5 & = & 2x - 2 \\ (+2) & & (+2) \end{array}$$

$$\begin{array}{rcl} 2x & = & 7 \\ x & = & 3.5 \end{array}$$

$$\begin{array}{l} \therefore 4x + 5 \\ 4 \times 3.5 + 5 \\ = \underline{\underline{19\text{cm}}} \end{array}$$

[5]

GCSE Maths



Exam Papers

Write your name here	
Surname	Other names
Pearson Edexcel	Centre Number
Level 1/Level 2 GCSE (9-1)	Candidate Number
Mathematics	
Paper 1 (Non-Calculator)	
Foundation Tier	
Thursday 2 November 2017 – Morning	Paper Reference
Time: 1 hour 30 minutes	1MA1/1F
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser. 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.**



5 Here are the first four terms of a number sequence.

2 5 11 23

The rule to continue this sequence is

multiply the previous term by 2 and then add 1

Work out the 5th term of this sequence.

(Total for Question 5 is 1 mark)

6 Here are five straight rods.

$\overline{\leftarrow a - 1 \rightarrow}$ $\overline{\leftarrow a \rightarrow}$ $\overline{\leftarrow a \rightarrow}$ $\overline{\leftarrow a \rightarrow}$ $\overline{\leftarrow a + 4 \rightarrow}$

All measurements are in centimetres.

The total length of the five rods is L cm.

Find a formula for L in terms of a .

Write your formula as simply as possible.

GCSE Maths



Help and Support
within the department
and revision sessions



Supporting Success:

SCIENCE





GCSE Science

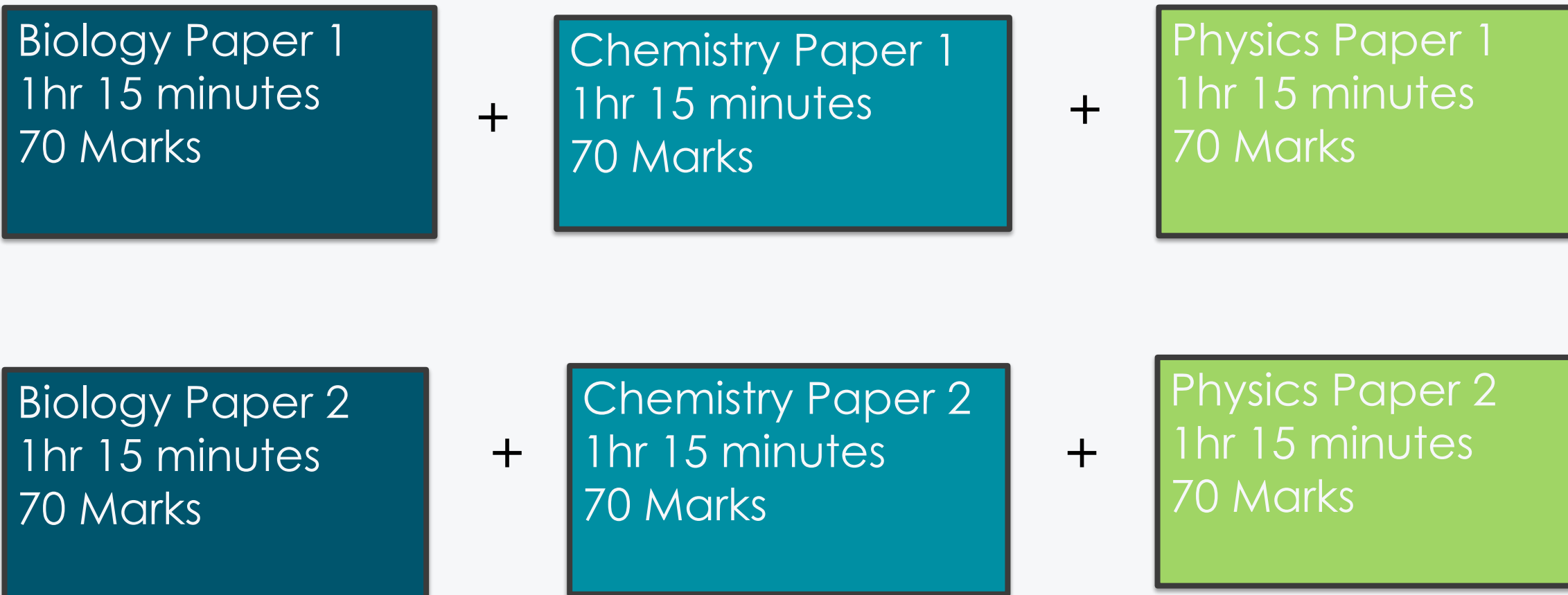




GCSE Science

- This is a **double GCSE** – you will get a double grade
- You will be entered for Higher tier (43 to 99) or Foundation tier (11 to 55)
- Exams are all at the end of year 11 (June)

Your GCSE is made of 6 units



GCSE Science



For Combined Science:

Higher

9-9
9-8
8-8
8-7
7-7
7-6
6-6
6-5
5-5
5-4
4-4
4-3
3-3
3-2
2-2
2-1
1-1

Foundation

Marks from all papers will be added together to award the final grade.

GCSE Science



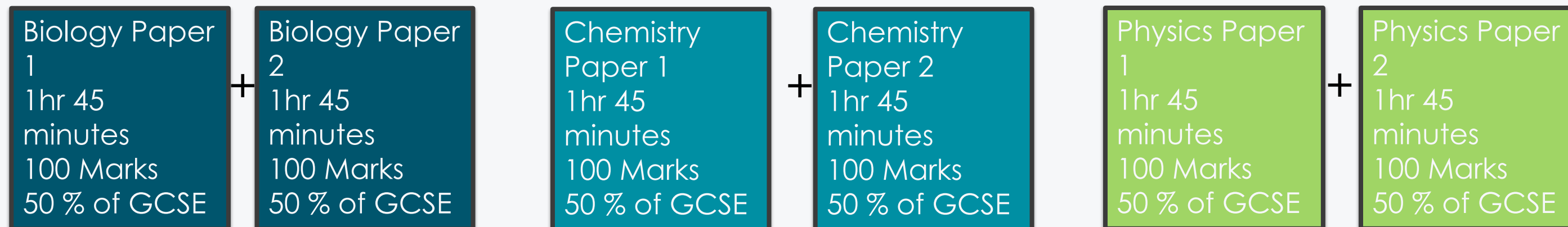
	99	98	88	87	77	76	66	65	55	54	44
420	.	.	.	.	.	.	.	.	276	257	238
420	298	280	262	245	228	208	188	168	149	130	111

Separate Science



- This is **THREE GCSEs** – you will get a different grade for each science
- You will be entered for Higher tier (4 - 9) or Foundation tier (1-5)
- Exams are all at the end of year 11 (June)

Your GCSEs are made of 6 units:



GCSE Science



Assessment objectives

Overall
Weighting %

Fact recall (AO1)

40

Applying Knowledge (AO2)

40

Analysing information (AO3)

20

GCSE Science



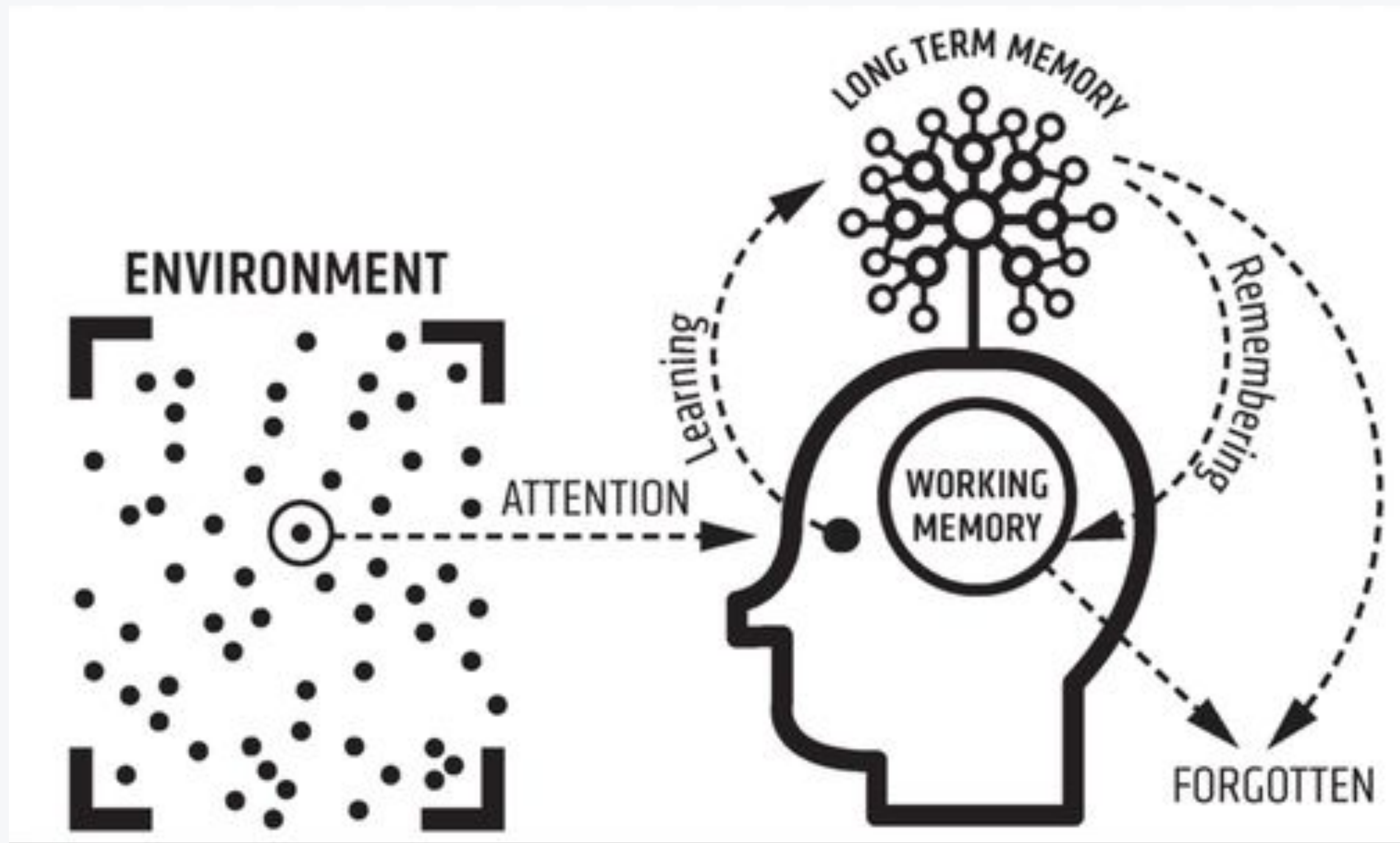
**What were the original
numbers?**

1 91419 1 8193 91 94520 26

1914 1918 1939 1945 2026

GCSE Science

Memory model

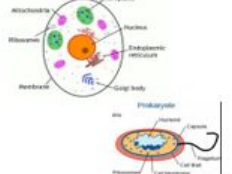
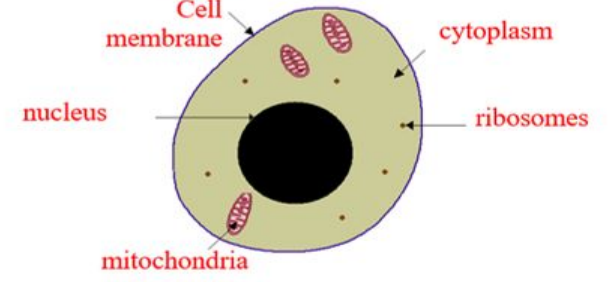
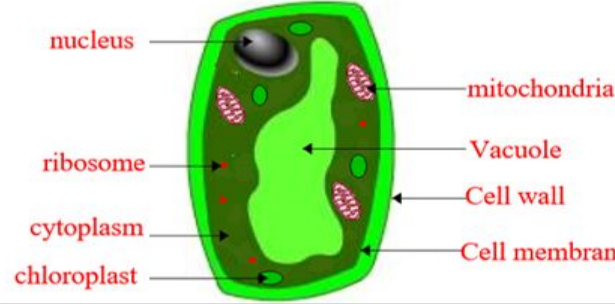


GCSE Science

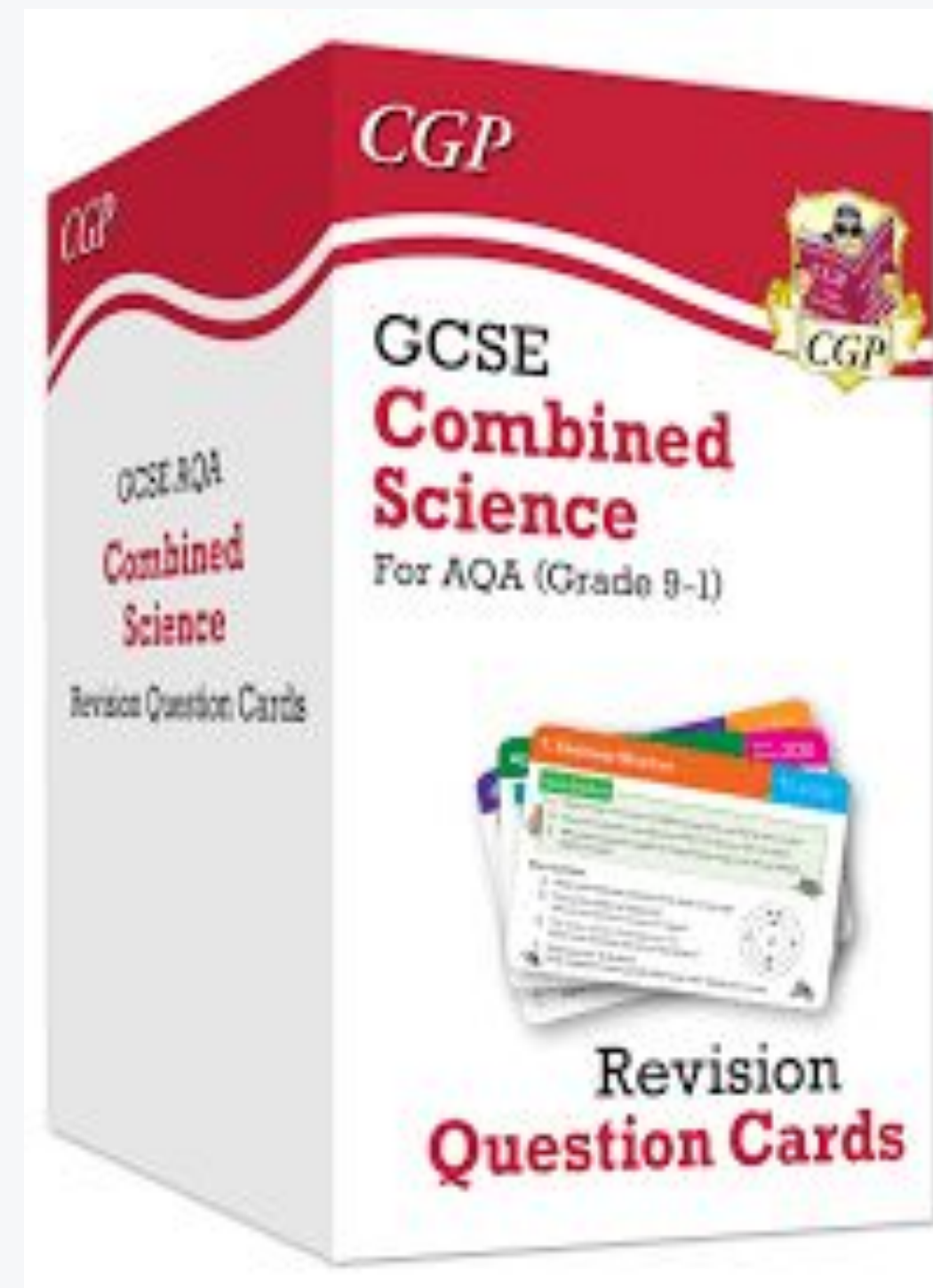
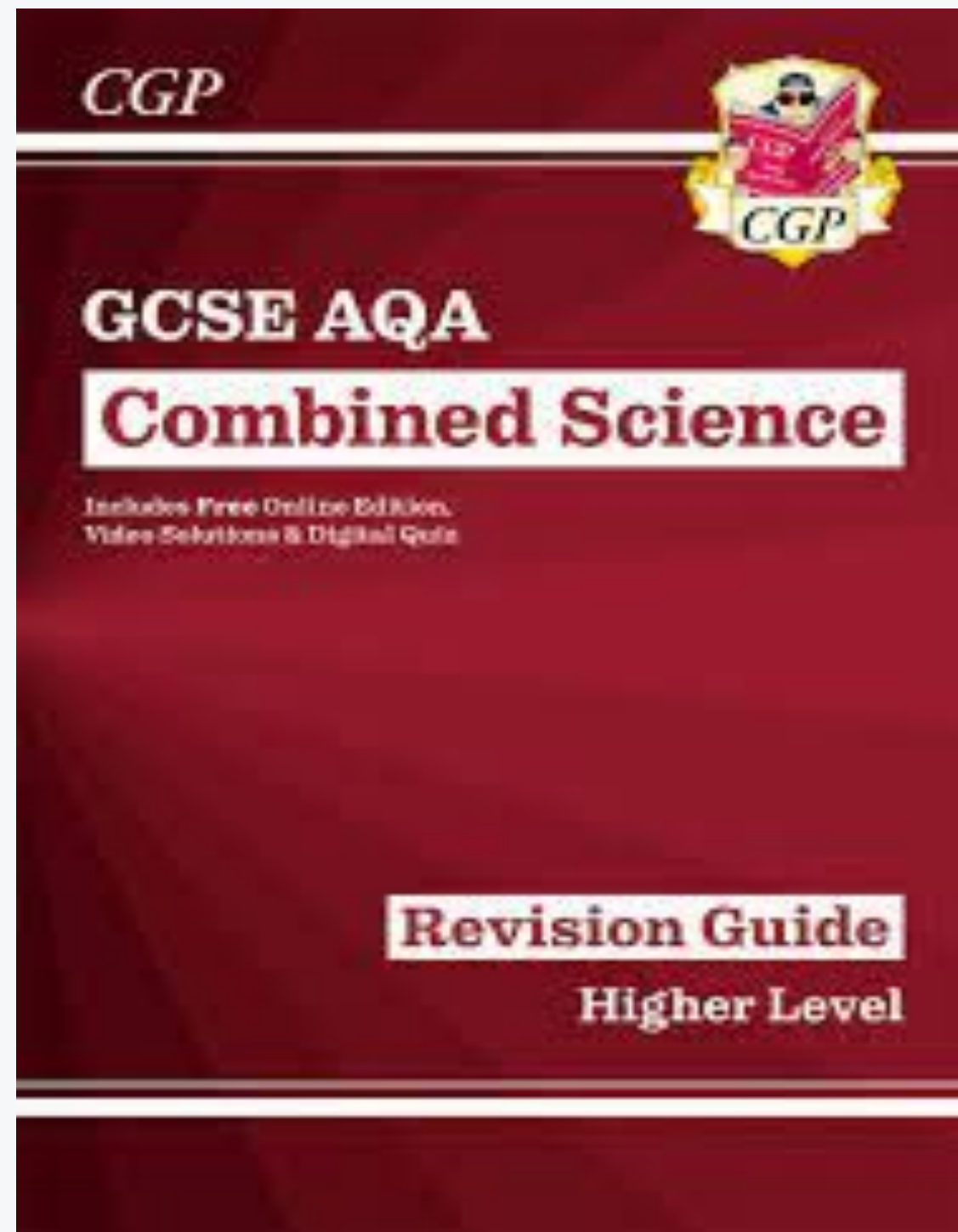


The BEST Revision Guides...



B4.1 Cells and Transport	
4.1.1	Cell structure
4.1.1.1 Eukaryotes and prokaryotes 	Plant and animal cells (eukaryotic cells) have a true nucleus and membrane-bound organelles. Bacterial cells (prokaryotic cells) are much smaller in comparison. They have cytoplasm and a cell membrane surrounded by a cell wall. The genetic material is not enclosed in a nucleus. It is a single DNA loop and there may be one or more small rings of DNA called plasmids. Use prefixes centi 1/100, milli 1/1000, micro 1/10⁶ and nano 1/10⁹.
4.1.1.2 animal and plant cells	 Animal cells have the organelles Nucleus = controls the cell Cytoplasm = where chemical reactions take place Cell membrane = lets substances in and out of the cell Mitochondria = where respiration happens that releases energy Ribosomes = where proteins are made  In addition to the parts found in animal cells, plant cells often have: Chloroplasts = where photosynthesis happens Vacuole = where cell sap is stored. Cell wall = made of cellulose, which strengthens the cell.
4.1.1.3 cell specialisation	Cells may be specialised to carry out a particular function: • sperm cells, nerve cells and muscle cells in animals • root hair cells, xylem (water transport) and phloem cells (sugar transport) in plants.
4.1.1.4 cell differentiation	As an organism develops, cells differentiate to form different types of cells. • Most types of animal cell differentiate at an early stage. • Many types of plant cells retain the ability to differentiate throughout life. In mature animals, cell division is mainly restricted to repair and replacement. As a cell differentiates it acquires different sub-cellular structures to enable it to carry out a certain function. It has become a specialised cell.

GCSE Science



GCSE Science



How to revise and build schema for Science:

- 100% effort in all lessons
- Period 7
- Knowledge organisers
- Flashcards – especially good for knowledge
- Working collaboratively and quizzing friends
- Revision grids/topic summaries
- Exam questions
- Planning your time, start early so you have time to revisit