

YEAR 11

MATHS, ENGLISH AND SCIENCE
INFORMATION EVENING





Year 11 Extra Provision Timetable – Spring Term 2024

	Monday	Tuesday	Wednesday	Thursday	Friday
BEFORE SCHOOL 8 - 8.30am	<ul style="list-style-type: none"> Ms Samuels – English Literature (Unseen Poetry) - A12 	<ul style="list-style-type: none"> Miss Gardner – English Language – C7 Mrs Hussain – English Literature Paper 2 – A14 Mrs Parveen – EAL English - A11 			
TUTOR TIME 8.30-9am	<ul style="list-style-type: none"> Mr Hewitt – Business (invite only) – B22 Mrs Openshaw- Geography- G1-invite only Miss Brooks-Henderson – DT NEA coursework - D3 	<ul style="list-style-type: none"> Mr Hewitt – Business (invite only) – B5 Miss Brooks-Henderson – DT NEA coursework - D3 	<ul style="list-style-type: none"> Mrs Hornett – Computer Science (invite only) – B5 Miss Brooks-Henderson – DT NEA coursework - D3 	<ul style="list-style-type: none"> Miss Brooks-Henderson – DT NEA coursework – D3 Mrs Ford – Invitation only - C8 	<ul style="list-style-type: none"> Miss Brooks-Henderson –DT NEA coursework – D3 Mrs Ford – Invitation only - C8
Break time	<ul style="list-style-type: none"> Miss Brooks-Henderson – DT NEA coursework - D3 	<ul style="list-style-type: none"> Miss Brooks-Henderson – DT NEA coursework – D3 	<ul style="list-style-type: none"> Miss Brooks-Henderson – DT NEA coursework - D3 		<ul style="list-style-type: none"> Miss Brooks-Henderson – DT NEA coursework - D3
LUNCHTIME 1:25 - 1:55pm	<ul style="list-style-type: none"> Mrs Hornett – Computer Science – B5 Mrs Rose – Child development NEA coursework – D7 	<ul style="list-style-type: none"> Mr Cooper Maths C16 Mr Jolosho C15 Maths Mr McCall- A22- Philosophy & Ethics Miss Brooks-Henderson – DT NEA coursework – D3 Mrs Jamieson - French A26 Higher Master Class Mr Bradnick – English Literature - C6 	<ul style="list-style-type: none"> Mrs Robertson – Business – B12 Mrs Hornett – ICT (Creative iMedia) – B5 Mr Jolosho – Maths Miss Brooks-Henderson – DT NEA coursework – D3 Ms Samuels – Open Session and Quiet Workspace – English Language and English Literature - A12 	<ul style="list-style-type: none"> Mrs Hilliage – Chemistry drop in – B17 Mr Ashford – Music – E1 Mr McCauslin – Biology - B18 Miss Brooks-Henderson – DT NEA coursework - D3 	<ul style="list-style-type: none"> Mr Hill – Physics – B6 Miss Brooks-Henderson – DT NEA coursework - D3 Mrs Mulvey – Biology/chemistry - B20 Miss Brooks-Henderson – DT NEA coursework - D3

Year 11 February Mock Exam Information

Subject	Students will be sitting: (e.g. one 1 hour paper)	Students should revise:
Business	Theme 2 – paper 2	<p>All content for Theme 2 – revision checklist, revision guide and course companion posted on SMHW.</p> <p>Students will be tested on 1,2,3,6,9 and 12 mark questions.</p> <p>Past papers and mark schemes can be found at:</p> <p>https://qualifications.pearson.com/en/qualifications/edexcel-gcses/business-2017.coursematerials.html#%2FfilterQuery=category:Pearson-UK:Category%2FExam-materials</p>
Computer Science	<p>Paper 2 Computational thinking, algorithms, programming</p> <p>1 hour 30 mins</p>	<p>All paper resources have been handed out to students as well as some electronic including useful revision websites that are on SMHW.</p> <p>Students need to revise the following topics: -</p> <ul style="list-style-type: none"> 2.1 Algorithms 2.2 Programming fundamentals 2.3 Producing robust programs 2.4 Boolean logic 2.5 Programming language and Integrated Development Environments <p>https://www.knowitallninja.com/</p>

- 
- The image features the Fairfax Sinceritas Laboris logo at the top, consisting of four vertical yellow bars of increasing height followed by the text "FAIRFAX" in large, bold, white capital letters, and "SINCERITAS LABORIS" in smaller, white capital letters below it. Below the logo is a graphic of two overlapping presentation slides. The background slide is white and tilted slightly to the right. It has the word "Revision" in a large, bold, black serif font. Below it, in a smaller, black serif font, is the text "Planning your Revision & Creating a Revision Timetable". A smaller, yellow slide is partially visible behind the white one, tilted more steeply. It contains the text "This Power Point will help you understand how to plan your revision and how to create a revision timetable." in a black, sans-serif font.
- FAIRFAX**
SINCERITAS LABORIS
- Revision**
- Planning your Revision &
Creating a Revision Timetable
- This Power Point will help
you understand how to plan
your revision and how to
create a revision timetable.

- o Your revision timetable will look different at different times of the year.
- o During term time your revision timetable should look something like this.
- o It's useful to plan ahead so you might want to plan your revision a month at a time.

SEC	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5:15							
5:30							
5:45							
6:00							

LINES WORDS

- LINES OF WORDS**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF LAND**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF MUSIC**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF ART**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF COLOR**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF TEXT**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF TIME**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP
- LINES OF SPACE**
 - LINE: ONE LETTER OR MORE
 - WORD: ONE OR MORE LETTERS
 - NOT AT END NOT IN MIDDLE
 - NOT
 - STOP
 - STOP

Flash cards

Mathematics



The new grading structure is being introduced, from grade 9 to 1, to replace the familiar A* to G grading scale. 9 will be the highest grade, 1 the lowest.

How is it assessed?

100 % exam

Three papers each 80 marks

Each paper 1.5 hours

Date of exam

16th May

3rd June

10th June

Grades available

Higher 4-9

Foundation 1-5

Grade 7 anchored to a grade A

Grade 4 anchored to a grade C



Tier of Entry

Grades available

Higher 4-9 and Foundation 1-5

Crossover grade 4 and 5 (4 is equivalent to a grade C)

Review assessments and regular mini mocks exam papers in classroom .
Mock in November , full mock in February .

Final decision with regards tier needs to be made later in March

However we will enter students for the tier they have best opportunity of achieving the highest grade.



Topic
checklists on
Show my
homework

HIGHER - Grades 4 – 9

Algebra

I can do this	Grade	Title
	9	Approximate solutions to equations using iteration.
	9	Equation of a circle
	9	Equation of a tangent
	8	Algebra and Proof
	8	Gradients and area under a graph
	8	Graphs of trigonometric functions
	8	Quadratic equations (completing the square)
	7	Composite functions
	7	Expand the product of two or more binomials
	7	Factorising difficult quadratic expressions
	7	Geometric Sequences
	7	Graphs of exponential functions
	-	Quadratic equations (needing

I can do this	Grade	Title
	6	Quadratic equations (graphical methods)
	6	Represent linear inequalities
	6	Simultaneous equations (linear)
	5	Algebraic argument
	5	Algebraic terminology
	5	Cubic and Reciprocal graphs
	5	Deduce quadratic roots algebraically
	5	Derive an equation
	5	Equation of a line
	5	Expand the product of two binomials
	5	Factorising quadratic expressions
	5	Fibonacci, quadratic and simple geometric sequences
	5	Graphical solution to equations
	5	Inequalities on number lines
	5	Linear equations
	5	Quadratic graphs
	5	Reciprocal real-life graphs
	5	Simplify indices



Pearson Edexcel GCSE (9–1) Mathematics

May–June 2023 Assessment Window

Syllabus reference **1MA1**

Mathematics
Higher tier
Exam Aid

You are not permitted to take this notice into the examination.
A version of this equation list will be included with the May–June 2023 question papers. This document is valid if downloaded from the [Pearson Qualifications website](#).

Instructions

- Please ensure that you have read this aid before the examination.

Information

- A formula sheet will be provided for foundation tier and for higher tier students.
- The format/structure of the assessments remains unchanged.
- This exam aid provides students with additional exam formulae which they may refer to in their examinations.
- Please note, a copy of this exam aid will be made available to all students on the day of the examination as an insert in the question paper.
- There are no restrictions on who can use this aid.

- The Advance Information document for Maths has been shared with students on Show My Homework and students have been issued with a copy



Colour coded regards understanding

Pinpoint QLA

Suggested GCSE level

3	131	Simple Index Form	-	-	-	-	0% ★	-	100% ★	Improved
3	33	Collecting Like Terms	-	-	100% ★	0% ★	-	100% ★	0% ★	Decline - revise again!
3	NA	Draw the Correct Chart	-	-	-	-	-	50% ★	-	Tested Once Only
3	38	Equivalent ratios	-	-	-	33% ★	-	0% ★	-	Consistent Weakness
3	22	Cost and Money Problems	-	-	-	-	-	-	100% ★	Tested Once Only

Students have also received an overview of topics identifying strengths and weaknesses for all their formal maths exams

www.pinpointlearning.co.uk



Pinpoint booklet

Personalised booklet of weaker areas based on November exam

- Personalised booklet will be in your student pack which has already been given to students
- Students can also log into website and see additional personalised booklets from previous exams, using their passwords which again are in your pack
- Also has Sparx code for that topic that students can enter into Sparx with support video and additional questions on Sparx for that topic

Topic 3: Fractions of Amounts and Worded Problems.

Mwatch clip: 72, Hegarty: 77, Sparx: U881,U916

Topic 4: Best Deal Problems.

Mwatch clip: 41, Hegarty: 763 to 772, Sparx: U721

www.pinpointlearning.co.uk



Weekly tasks set every Wednesday

Tasks set each week in line with topics they currently studying or have previously studied.

Automatically adjust level and will support bespoke revision

Parental email re completion – would encourage your child to complete as much as possible



Revision timetable

Tuesday	<p>Mr Cooper. Target 5-7</p> <p>Week beginning 8th Jan venn and probability Week beginning 15th Jan probability Week beginning 22nd Jan upper and lower bound Week beginning 29 Jan standard form Week beginning 5th Feb transformation Week beginning 19th Feb histograms Week beginning 26th Feb box plots Week beginning 4th March fractional and negative indices Week beginning 11th March sine/cosine rules Week beginning 18th March direct and inverse proportion</p>	<p>Mrs Kalicharan Target 7 + Week beginning</p> <p>Week beginning 8th Jan sine and cosine rules Week beginning 15th Jan histograms Week beginning 22nd Jan upper and lower bound Week beginning 29 Jan algebraic fractions Week beginning 5th Feb transformation Week beginning 19th Feb venn diagrams Week beginning 26th Feb box plots Week beginning 4th March fractional and negative indices Week beginning 11th March inverse and composite functions Week beginning 18th March vectors</p>
	<p>Mr Joloshio Target 4/5</p> <p>Week beginning 8th Jan money problems Week beginning 15th Jan linear equations Week beginning 22nd Jan pie charts Week beginning 29 Jan standard form Week beginning 5th Feb simplifying expressions Week beginning 19th Feb twp way tables Week beginning 26th Feb changing subject Week beginning 4th March metric conversion Week beginning 11th March Week beginning 18th March</p>	<p>Miss Harvey SPARX CLUB – B5 all welcome</p>
		<p>Miss Ashton Target 3-5</p> <p>Week beginning 8th Jan probability Week beginning 15th Jan probability 2 Week beginning 22nd Jan pythag</p>
		<p>Week beginning 29 Jan linear equations Week beginning 5th Feb volume and surface areas Week beginning 19th Feb standard form Week beginning 26th Feb inequalities Week beginning 4th March bounds Week beginning 11th March venn and probability Week beginning 18th March fdp problems</p>

Target levels with specific topics identified as focus areas.

Copy in your pack



Revision material available to
purchase through parent pay



Summary

Revision sessions started in October and a copy of the revision timetable for Mathematics will also be in your student pack

Welcome to attend any revision sessions but they do have suggested grades next to the session- bespoke topics

Additional support on SMH , including topic lists , question a day and answers. Half term h/w has also been set for February

Students have been given copies of exam papers and solutions

Additional packs of model solutions on our school website

Weekly tasks have been set on sparx

Envelope with a copy of the revision timetable and pinpoint booklet.

Any issues please contact maths teacher , or KS4 lead J Paris j.paris@fairfax.fmat.co.uk, or H a.ashton@fairfax.fmat.co.uk



Recommended maths websites

www.examsolutions.net

www.mathsgenie.co.uk

www.mathsapp.pixl.org.uk

www.corbettmaths.com

www.edexcel.co.uk

School website – numerous papers/resources/model solutions/mark schemes



English

Director of Faculty – Mrs K Ford
k.ford@fairfax.fmat.co.uk

Key Stage 4 and Year 11 Intervention Lead – Miss J Gardner
j.gardner@fairfax.fmat.co.uk



In English all students follow the same pathway:-

GCSE English Language – AQA

<http://www.aqa.org.uk/subjects/english/gcse/english-language-8700>

AND

GCSE English Literature – AQA

<http://www.aqa.org.uk/subjects/english/gcse/english-literature-8702>

There is only one level of entry – papers aren't tiered.



Provisional Exam Dates

GCSE English Language

Paper 1 – 23rd May – 1 hour 45 minutes (am)

Paper 2 - 6th June – 1 hour 45 minutes (am)

GCSE English Literature

Paper 1 – Shakespeare and the 19th Century Novel

13th May – 1 hour 45 minutes (am)

Paper 2 - Modern Texts and Poetry

20th May – 2 hours 15 minutes (am)



Outline of Course

GCSE English Language



Assessments

All texts in the examination will be unseen.

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)



Non-examination Assessment: Spoken Language

What's assessed

(AO7–AO9)

- presenting
- responding to questions and feedback
- use of Standard English

Assessed

- teacher set throughout course
- marked by teacher
- separate endorsement (0% weighting of GCSE)



Outline of Course

GCSE English Literature



Assessments

All assessments are closed book: any stimulus materials required will be provided as part of the assessment.

All assessments are compulsory.

Paper 1: Shakespeare and the 19th-century novel

What's assessed

- [Shakespeare plays](#) (page 11)
- [The 19th-century novel](#) (page 11)

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](#) (page 11)
- [The poetry anthology](#) (page 12)
- [Unseen poetry](#) (page 13)

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.



Revision Sessions and Additional Support

Mrs Ford (Tuesday in C8) and Miss Hickling (Wednesday in C3) run open sessions for all students on Tuesday and Wednesday between 3pm and 3.45pm. In addition, other sessions run throughout the week, led by Faculty staff. Some sessions are targeted and are run on an invitation basis, others are open. Please see the timetable for reference.

Students can support their revision by referencing homework set on *Show My Homework* and using revision booklets on the school website.



Resources to help you
Web links



www.youtube.com/watch?v=..

Faculty of English - Intervention and Support Timetable				
	8am-8.30am	8.30am-9am	1.30pm-2pm	3pm-3.45pm
Monday	Ms Samuels - A12 English Literature Unseen Poetry			Masterclass Sessions KRF, JQG, JAH, KMJ English Language and Literature Invitation Only – see separate timetable
Tuesday	Miss Gardner - C7 English Language			Mrs Ford - C8 Open Session and Quiet Workspace English Language and English Literature
	Mrs Parveen - A11 Invitation Only			Mr Bradnick - C6 English Literature – Invitation Only
	Mrs Hussain - A14 Invitation Only English Literature Paper 2			
Wednesday			Ms Samuels - A12 Open Session and Quiet Workspace English Language and English Literature	Miss Jones - A13 11EFG English Literature – Invitation Only
				Miss Flinter - C5 11EFA and 11EXE - Invitation Only
				Miss Hickling - C3 Open Session and Quiet Workspace English Language and English Literature
				Mrs Ford - C8 English Literature - <i>Frankenstein</i>
Thursday		Mrs Ford Invitation only	Miss Hickling - C3 Open Session and Quiet Workspace English Language and English Literature	Mrs Ford - C8 English Literature - <i>An Inspector Calls</i>
				Ms Samuels - A12 11EXN English Language – Invitation Only
Friday		Mrs Ford Invitation only		



Pinned Tweet



Mr Bruff @MrBruffEnglish · Feb 4

Grade 9 analysis of all power & conflict poems [youtube.com/playlist?list=...](https://www.youtube.com/playlist?list=...) & all love & relationships poems [youtube.com/playlist?list=...](https://www.youtube.com/playlist?list=...) please RT!



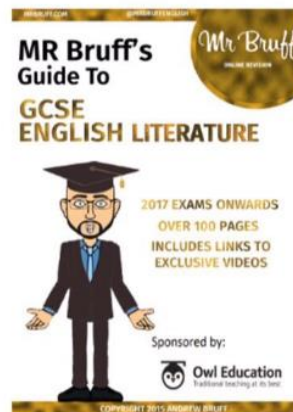
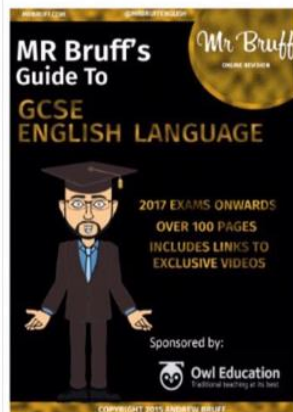
Mr Bruff @MrBruffEnglish · Jan 15

9 videos on 'The Sign of Four' by Arthur Conan Doyle - Analysis [youtube.com/playlist?list=...](https://www.youtube.com/playlist?list=...)



Mr Bruff @MrBruffEnglish · Feb 4

Going to do a giveaway for my two GCSE guides. To enter, retweet my NEXT tweet (about 42 videos). Draw at 10pm



Mr Bruff @MrBruffEnglish · 17h

Please retweet: Power and Conflict Revision Rap: 15 Quotations to Music youtu.be/dABvuspS9Vo?li... via @YouTube



Power and Conflict Revision Rap: 15 Quotations to...

See the explanation of the quotations here:

<https://youtu.be/RkJdEaKTIYg> Download for free on

iTunes (podcast 32): <https://itunes.apple.com/gb/podcas...>

[youtube.com](https://www.youtube.com)





YouTube GB Mrs Whelan

Mrs Whelan's English [Subscribe](#) 6,853

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AQA Power & Conflict comparison: 'War Photographer' 2,365 views • 8 months ago

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Paper 2 Q4 the 'comparison' question

Mrs Whelan's English [Subscribe](#) 6.8K

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Paper 2 Section B

Mrs Whelan's English [Subscribe](#) 6.8K

18,441 views



What can we do at home?

Revise using AQA sample questions AND mark schemes:-

GCSE English Literature

Teaching from: September 2015

Exams from: June 2017

Specification code: 8702

QAN code: 601/4447/6

We have worked closely with teachers to design our English Literature specification to inspire, challenge and motivate every student, regardless of ability level.

A range of texts is included to cater for the needs of teachers and students in all educational contexts. There are texts that will be familiar, as well as new ones that will inspire young readers.


It's fully co-teachable with GCSE English Language, so students will benefit from the transferable skills.

[Specification >](#)

[Specification at a glance >](#)

[Specimen papers and mark schemes >](#)



 [Download specification](#)

GCSE English Language

Teaching from: September 2015

Exams from: June 2017

Specification code: 8700

QAN code: 601/4292/3

Our specification is designed to inspire and motivate your students, providing appropriate stretch and challenge whilst ensuring that the assessment and texts are, as far as possible, accessible to all students.

It enables your students to develop the skills they need to read, understand and analyse a wide range of different texts and write clearly.


We've developed two equally-balanced papers, each assessing reading and writing in an integrated way.

[Specification >](#)

[Specification at a glance >](#)

[Specimen papers and mark schemes >](#)



 [Download specification](#)



What can we do at home?

Revise using free revision resources provided on the school website...


LANGUAGE PAPER 1

In the exam there will be two sections:

Section A: Reading
1 fiction text
4 questions

Section B: Writing
Choice of 2 questions

It will take **1 hour 45mins.**



The image shows a specimen material for GCSE English Language Paper 1. It includes a header with the AQA logo and 'SPECIMEN MATERIAL 1'. Below this, it states 'GCSE ENGLISH LANGUAGE (8700)' and 'Paper 1: Explorations in creative reading and writing'. It also mentions 'Time allowed: 1 hour 45 minutes'. The document lists various questions and tasks for both Section A (Reading) and Section B (Writing).


LANGUAGE PAPER 2

In the exam there will be two sections:

Section A: Reading
2 non-fiction texts
4 questions

Section B: Writing
1 question

It will take **1 hour 45mins.**



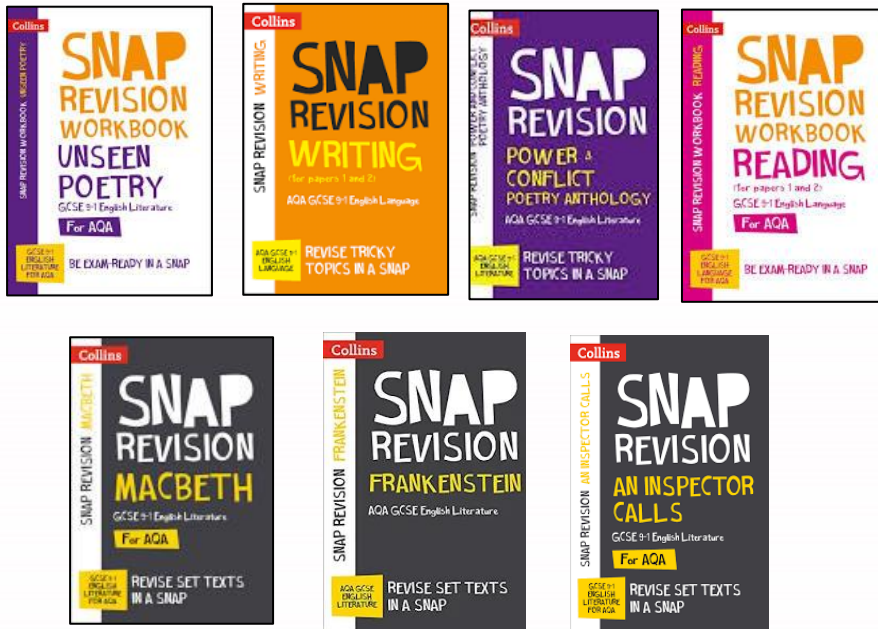
The image shows a specimen material for GCSE English Language Paper 2. It includes a header with the AQA logo and 'SPECIMEN MATERIAL 2'. Below this, it states 'GCSE ENGLISH LANGUAGE (8700)' and 'Paper 2: Writers' viewpoints and perspectives'. It also mentions 'Time allowed: 1 hour 45 minutes'. The document lists various questions and tasks for both Section A (Reading) and Section B (Writing).

...and those which will be provided by English teachers before we break up for half term.



What can you do at home?

Revise using revision guides which can be purchased by Parent Pay.



ParentPay
COUNT ON US

£10 for all 7 books



Science

Assistant Principal – Helen Williams

Biology	Mr J. McCauslin (j.mccauslin@)
Chemistry	Miss S Kaur (s.kaur1@)
Physics	Mr A Hill (a.hill@)

@fairfax.fmat.co.uk



In Science students follow one of the following pathways:-

Either

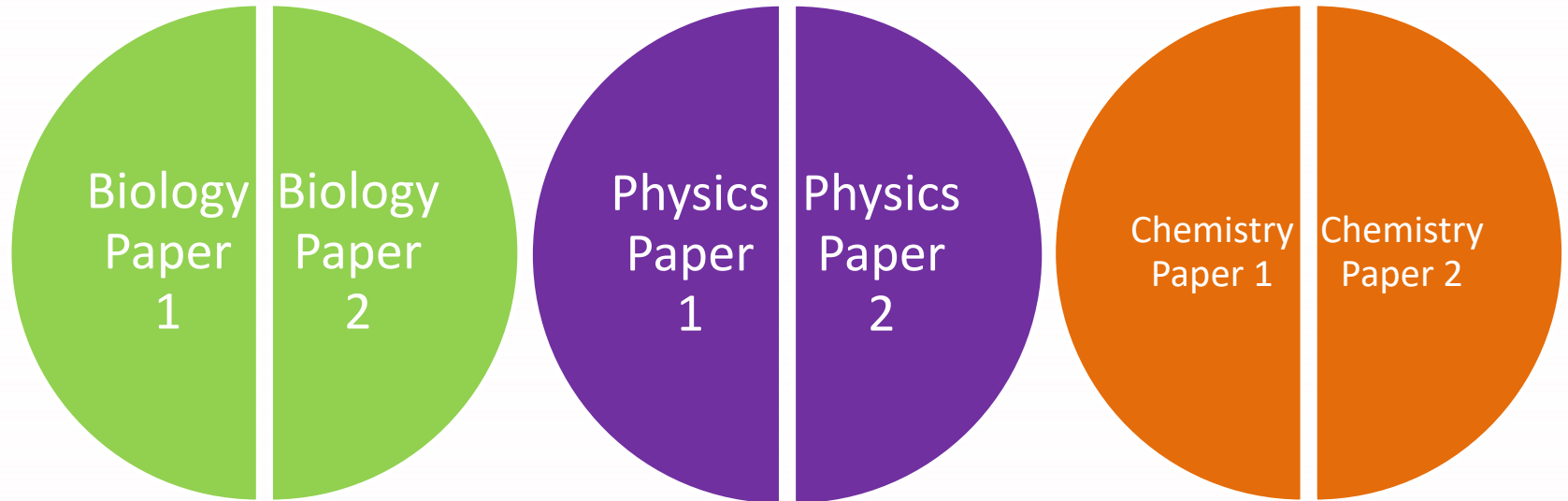
AQA Separate science
(3x GCSE's – Biology, Chemistry and Physics)

Or

AQA Combined science: Trilogy
(2x GCSE's – Science)



Separate science



3 x GCSE grades

Each examination lasts 105 minutes

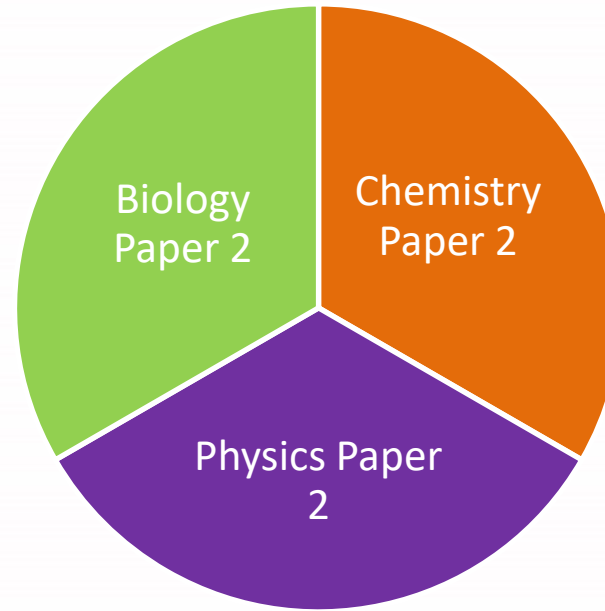
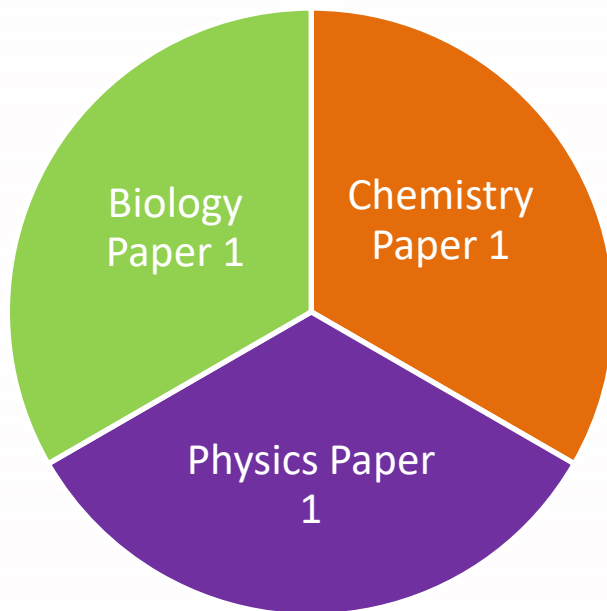
(a much more demanding course aimed at those hoping to study A-level science)

Higher tier gives 3 x
grades 4 - 9



Foundation tier gives 3 x
grades 1 - 5

Combined: Trilogy



2x GCSE's which are an average over all three sciences.
Each examination lasts 75 minutes.

Higher tier gives 2
grades 4 - 9



Foundation tier gives 2
grades 1 - 5

ROUTE & TIER OF ENTRY

Route and tier of entry decisions are based on student progress, aptitude, effort and plans post 16. Each is judged on an individual case by case basis and the experience of the science teachers. We will guide the students to gain the best possible set of results

The new grading structure was introduced for science in 2017 and runs from grade 9 to 1

We have higher (4 – 9) and foundation (1 – 5) tiers available on both of our courses



What is (still) new for 2024?

AQA

Physics Equations Sheet
 GCSE Physics (8463)
 FOR USE IN JUNE 2022 ONLY

HT = Higher Tier only equations

kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = $\text{mass} \times \text{gravitational field strength} \times \text{height}$	$E_p = m g h$
change in thermal energy = $\text{mass} \times \text{specific heat capacity} \times \text{temperature change}$	$\Delta E = m c \Delta \theta$
power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
charge flow = $\text{current} \times \text{time}$	$Q = I t$
potential difference = $\text{current} \times \text{resistance}$	$V = I R$
power = $\text{potential difference} \times \text{current}$	$P = V I$
power = $(\text{current})^2 \times \text{resistance}$	$P = I^2 R$
energy transferred = $\text{power} \times \text{time}$	$E = P t$
energy transferred = $\text{charge flow} \times \text{potential difference}$	$E = Q V$
density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

Physics Equations Sheet - GCSE Physics (8463)
 FOR USE IN JUNE 2022 ONLY

Turn over ►

Physics equations are
GIVEN to students. They
 do not need to learn
 them – this is a massive
 help!



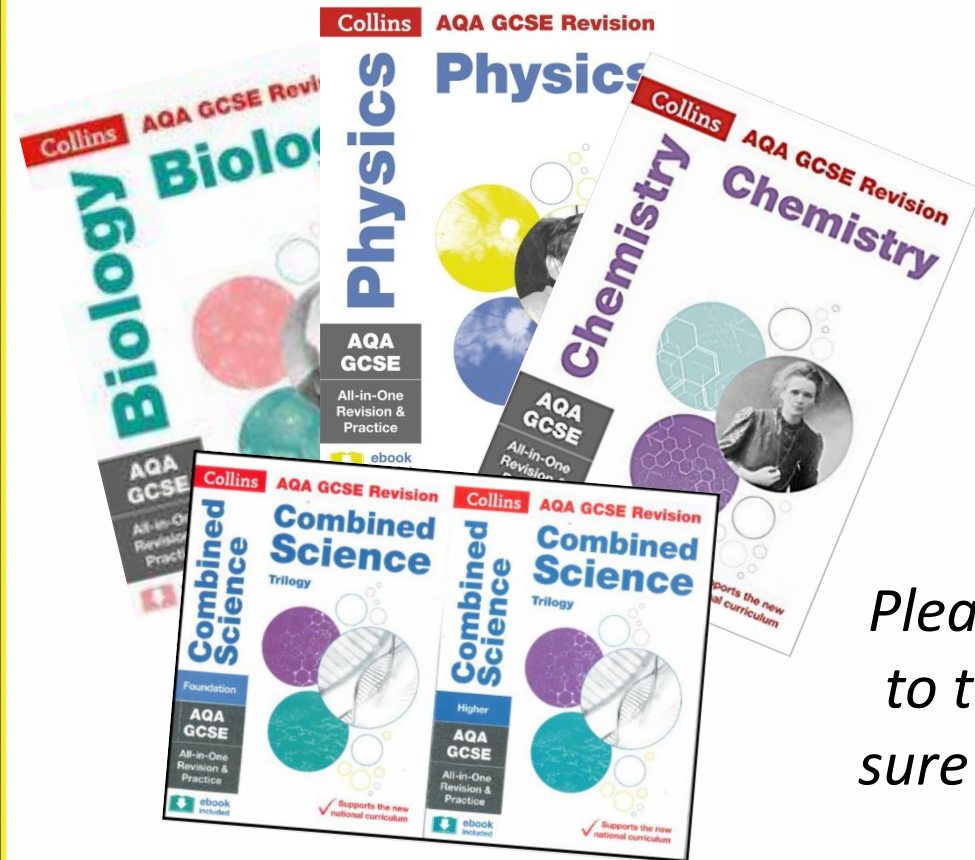


What can you
do at home to
support with
structured
revision?



Revise using the all in one revision guides which can be purchased via parent pay.

Please ask the student to speak to their teacher if they are not sure of their entry. They have all been told



Topic checklists are on Show My Homework, which show if content is found on the separates/combined route and H/F tier.

PAPER 2:

Unit 5: Homeostasis and response

		TF	TH	SF	SH
Homeostasis	Homeostasis				
The human nervous system	Structure and function (The human nervous system for Trilogy)				
	The brain				
	The eye				
	Control of body temperature				
Hormonal coordination in humans	Human endocrine system				
	Control of blood glucose concentration				
	Maintaining water and nitrogen balance in the body				
	Hormones in human reproduction				
	Contraception				
Plant hormones	The use of hormones to treat infertility				
	Negative feedback				
	Control and coordination				
	Use of plant hormones				

Our March mock exams are based on Paper 2 content. This is clearly labelled in red on the checklists



Chemistry



Chemistry – Combined Science – Paper 2 – Kerboodle

Topic checklists are on Show My Homework, which show if content is found on the separates/ combined route and H/F tier. This is also printed and students should have a copy of this.

C8 Rates and equilibrium

- C8.1 Rate of reaction
- C8.2 Collision theory and surface area
- C8.3 The effect of temperature
- C8.4 The effect of concentration and pressure
- C8.5 The effect of catalysts
- C8.6 Reversible reactions
- C8.7 Energy and reversible reactions
- C8.8 Dynamic equilibrium
- C8.9 Altering conditions

C9 Crude oil and fuels

- C9.1 Hydrocarbons
- C9.2 Fractional distillation of oil
- C9.3 Burning hydrocarbon fuels
- C9.4 Cracking hydrocarbons

C10 Organic reactions

- C10.1 Reactions of the alkenes
- C10.2 Structures of alcohols, carboxylic acids + esters
- C10.3 Reactions and uses of alcohols
- C10.4 Carboxylic acids and esters

C11 Polymers

- C11.1 Addition polymerisation
- C11.2 Condensation polymerisation
- C11.3 Natural polymers
- C11.4 DNA

C12 Chemical analysis

- C12.1 Pure substances and mixtures
- C12.2 Analysing chromatograms
- C12.3 Testing for gases
- ~~C12.4 Tests for positive ions~~
- ~~C12.5 Tests for negative ions~~
- ~~C12.6 Instrumental analysis~~

C13 The Earth's atmosphere

- C13.1 History of our atmosphere
- C13.2 Our evolving atmosphere
- C13.3 Greenhouse gases
- C13.4 Global climate change
- C13.5 Atmospheric pollutants

C14 The Earth's resources

- C14.1 Finite and renewable resources
- C14.2 Water safe to drink
- C14.3 Treating waste water
- C14.4 Extracting metals from ores
- C14.5 Life cycle assessments
- C14.6 Reduce, Reuse & recycle

C15 Using our resources

- C15.1 Rusting
- C15.2 Useful alloys
- C15.3 The properties of polymers
- C15.4 Glass, ceramics and composites
- C15.5 Making ammonia – The Haber process
- C15.6 The economics of the Haber process
- C15.7 Making fertilisers in the lab
- C15.8 Making fertilisers in industry

Chemistry – Separate Science – Paper 2 – Kerboodle

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Our March mock exams are based on Paper 2 content. This is clearly labelled on the checklists.



Chemistry Revision – By invite

- Miss Kaur (Thursday after school in B13)
- Mrs Hilliage (drop ins Thursday B17, Thursday after school B17)
- Miss Bolton (Tuesday after school in B3)



Useful sources of revision support

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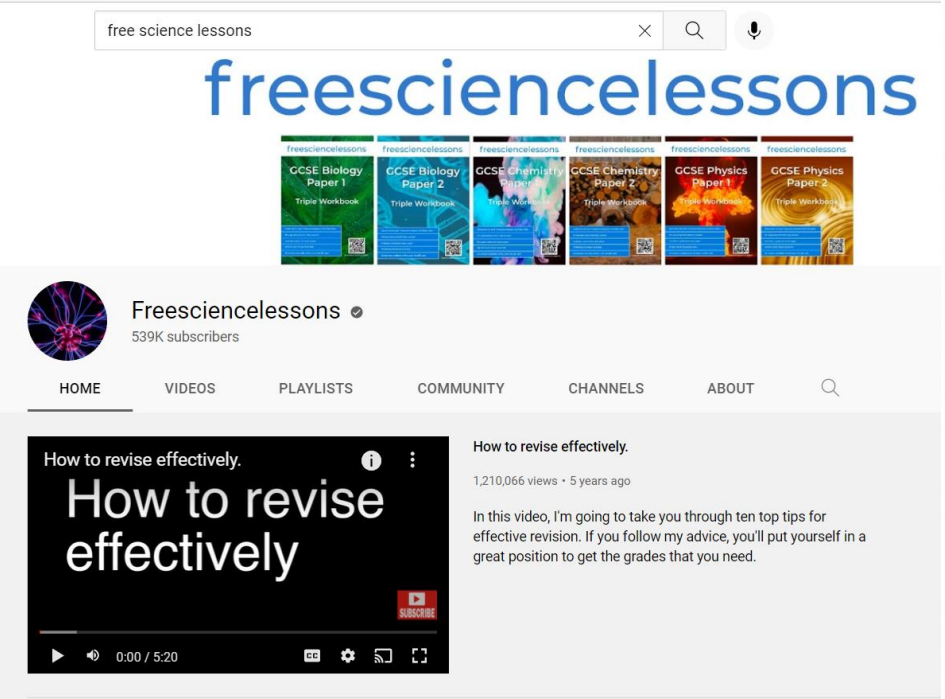
- Modified past papers are listed separately and are only available for some subjects. [Search for modified papers.](#)
- We only publish question papers and mark schemes for some **current** specifications, in the year following the exam. See [what's available when](#) for more information.
- Some question papers and mark schemes are no longer available after three years, due to [copyright restrictions](#) (except for Maths and Science).

Teachers can get past papers earlier, from 10 days after the exam, in the Resources tab on [Centre Services](#). It is important that you please keep these materials secure, and do not share them on any website, social media platform or video sharing site.

Students can
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papers and
mark
schemes on
the AQA
website

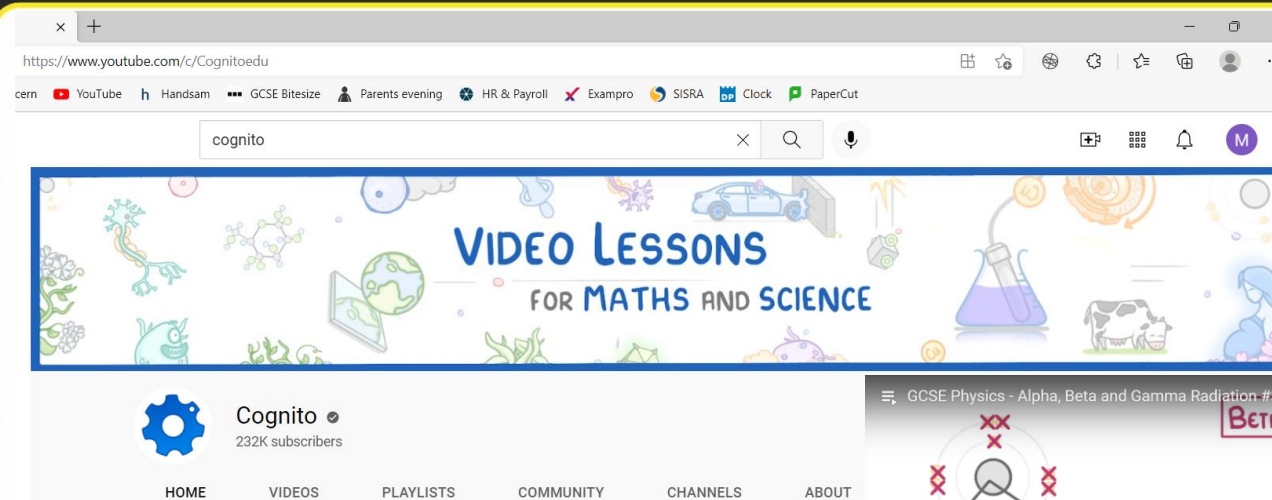


Whilst not terribly popular with the students this man offers concise and helpful revision insights on youtube

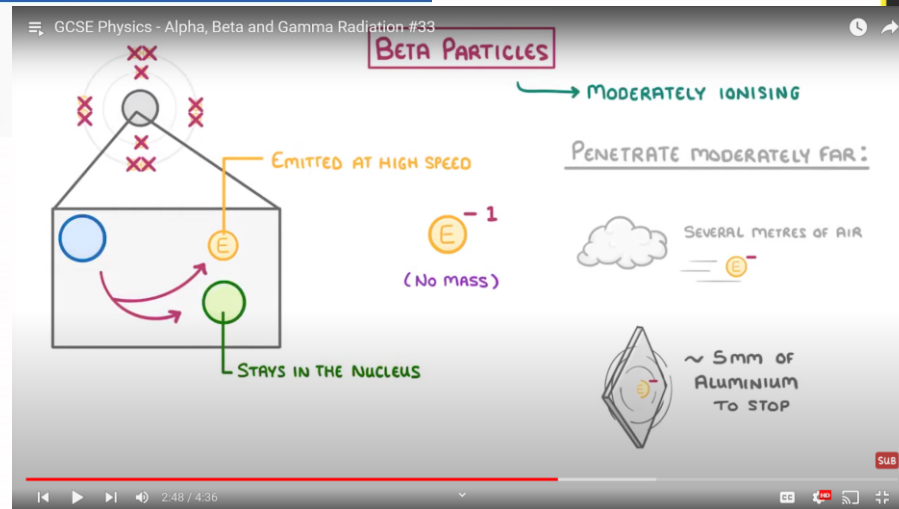


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Malmesbury education on YouTube

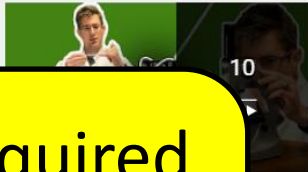


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There are 6 required practical activities for each of the three science subjects



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Soon to launch Educake
Science Homeworks

These will be set weekly. Online resources and online questions.

Feedback is instant for students so it will enable them to target their revision to the areas that they do not understand. This will also go to the teacher so that they can support too.

Thank you for your continued
support

