



Fish and Tips Evening

Tuesday 15th October 2024

Outcomes Focused, Child Centred

NET Vision

We constantly focus on standards as we understand **outcomes are paramount**. Our decision making is driven entirely by what is **best for children**. By doing this **we enhance the life chances** of the children and young people in our care.

Rob Tarn, CEO





Maths

Outcomes Focused, Child Centred



Maths



Contact:

Mrs Flanagan – NET Subject Director
e.flanagan@northerneducationtrust.org

Mrs Ralph – Head of Maths
c.ralph@dentoncommunitycollege.org.uk

Key Dates



External Maths GCSE Examinations

Paper 1: Thursday 15th May (Non-Calculator)

Paper 2: Wednesday 4th June (Calculator)

Paper 3: Wednesday 11th June (Calculator)

All papers are 1 hour 30 minutes and are worth 80 marks each, 240 marks in total. Students will sit either the Foundation Tier (Grade 1 - 5) or Higher Tier (Grade 3 - 9).

All Maths exams are morning exams. Students need to arrive by 8.30am

Foundation (grades 1-5)

Paper 1 Non-calculator

33.3% weighting



Paper 2 Calculator

33.3% weighting



Paper 3 Calculator

33.3% weighting



Higher (grades 4-9)

Paper 1 Non-calculator

33.3% weighting



Paper 2 Calculator

33.3% weighting



Paper 3 Calculator

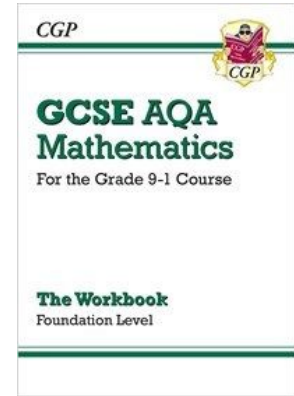
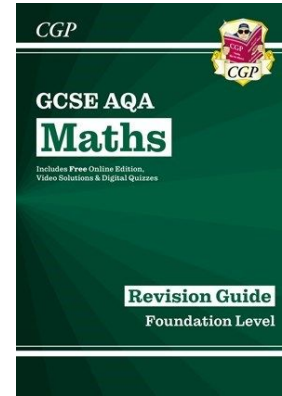
33.3% weighting



How we can support you in Maths...

All students will receive a pack tonight with the following:

- Revision Guide
- Workbook
- Revision Flashcards



In addition, students have all been given a calculator to keep until they have finished their exams.

How we can support you in Maths...

There is a whole range of additional support on offer for Year 11.

Students already have the opportunity to attend:

- *Maths Enrichment on a Thursday*
- *Tutor Group Maths*
- *Lunch time Sparx club and Year 11 support*
- *Breakfast Club Maths*
- *1-2-1 Support with Qualified Maths Tutors*
- *Raffle at break time*


In addition, our curriculum models allow students to access further intervention through *Option Maths* which is targeted at closing gaps for individuals on the back of STEP assessments.

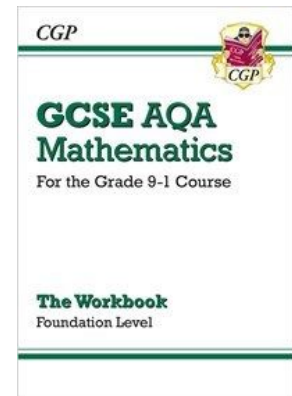
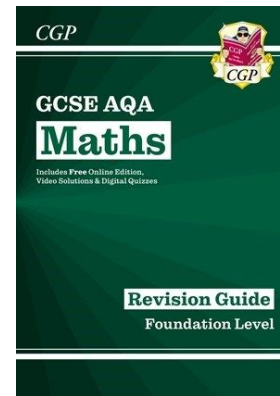
How do you 'revise' Maths...

sparx

Maths. Reimagined.

www.sparx.co.uk

GCSE		F
MATHEMATICS		
Foundation Tier	Paper 1 Non-Calculator	
Exam Date	Morning	Time allowed: 1 hour 30 minutes
Materials		
For this paper you must have:		
<ul style="list-style-type: none">mathematical instruments You must not use a calculator.		
		
Instructions		
<ul style="list-style-type: none">Use black ink or black ball-point pen. Draw diagrams in pencil.		



Corbettmaths

Maths Genie



www.northerneducationtrust.org



Maths. Reimagined.

www.sparx.co.uk

Sparx Maths is due every **Friday** students are in school.

sparx Homework 0 XP

Compulsory
1 new

XP Boost
1 new

Target
1 new

This is your personalised Compulsory homework. You need to answer every question correctly to complete it.

▼ Homework due Wednesday 14th September 7am New

Homework Task 1	<div style="width: 0%;"></div>	New
Homework Task 2	<div style="width: 0%;"></div>	New
Homework Task 3	<div style="width: 0%;"></div>	New
Homework Task 4	<div style="width: 0%;"></div>	New
Homework Task 5	<div style="width: 0%;"></div>	New
Homework Task 6	<div style="width: 0%;"></div>	New





Maths. Reimagined.

www.sparx.co.uk

Students can come and get Sparx support at the following times during the week:

Tuesday Lunch - M104 with CCH

Thursday after school - M102 with Maths Team



www.northerneducationtrust.org

Sparx and the Question Level Analysis (QLA)

PAPER 1				
Q	Topic	Max	Actual	RAG Sparx
1	Converting hours to minutes	1	1	100% U902
2	Converting decimals/fractions and adding	1	1	100% U902 U903
3	Properties of 2D shapes	1	1	100% U121
4	Solving simple linear equations	1	1	100% U755
5	Multiplying 2-digit numbers	3	3	100% U127
6a	Completing a frequency tree	4	4	100% U591 U594
6b	Probability from a frequency tree, simplifying fractions	2	2	100% U280
7	Estimating calculations	2	1	50% U225
8	Money calculations/Arithmetic word problems	6	6	100% U478
9	Dividing decimals	2	2	100% U868
10	Multiplying fractions, mixed numbers	2	2	100% U475
11	Perimeter	4	0	0% U993
12a	Substituting into formulae	1	1	100% U585
12b	Solving linear equations	4	2	50% U325
13	Order of operations	3	2	67% U976
14a	Primes, squares, sample spaces	4	4	100% U234 U551
14b	Sample spaces	1	1	100% U104
15	Ratio problems	3	3	100% U577
16a	Substituting into formulae, solving linear equations	2	2	100% U201
16b	Plotting a straight line	2	0	0% U741
17	Index laws	1	1	100% U662
18	Writing numbers in standard form	2	0	0% U330
19a	Converting speed, metric to imperial	2	0	0% U151
19b	Writing formulae	2	0	0% U585
20	Area of a circle problem solving	3	3	100% U950
21	Calculations with percentage increase	5	3	60% U478
22a	Density, formulae and simplifying	1	1	100% U910
22b	Speed, formulae and simplifying	1	0	0% U151
23	Exterior angles of a polygon	2	0	0% U427
24	Ratio problems, solving for x	1	0	0% U921
25	Mean and range from a grouped frequency table	4	1	25% U563
26	Prime factor decomposition	3	1	33% U739
27	Exact values of cos	1	0	0% U450
28	Solving simultaneous equations	3	3	100% U760
Total Marks		80	52	

PAPER 2				
Q	Topic	Max	Actual	RAG Sparx
1	Appropriateness of units	1	1	100% U437
2	Common multiples	1	1	100% U751
3	Converting fractions to decimals	1	1	100% U888
4	Negative numbers	1	1	100% U947
5a	Using a calculator	1	1	100% U926
5b	Rounding to 1 decimal place	1	1	100% U298
6a	Using the key in a pictogram	1	1	100% U506
6b	Reading pictograms	1	0	0% U506
6c	Interpreting answers	1	0	0% U506
7	Finding the median	2	2	100% U456
8a	Compass directions	1	0	0% U525
8b	Bearings	1	1	100% U525
8c	Using scale drawings	3	3	100% U257
8d	Interpreting real life contexts	1	0	0% U257
9	Completing bank statements	2	1	50% U127
10	Fractions of amounts	2	2	100% U881
11	Solving linear equations	2	2	100% U325
12a	Drawing scatter graphs/ lines of best fit	2	2	100% U193
12b	Finding the range	1	1	100% U526
12c	Percentages, calculating profit	5	3	60% U554
13	Finding angles around a point	2	2	100% U390
14	Converting metric and imperial units	3	3	100% U388
15	Linear sequences and term-to-term rule	2	2	100% U213
16	Fractions to ratio	1	1	100% U176
17	Percentages as fractions	1	0	0% U888
18	Income and rates of pay	6	1	17% U127
19	Understanding ratios	2	0	0% U687
20a	Single event probability	1	0	0% U408
20b	Single event probability	1	0	0% U408
21a	Direct proportion; converting capacity/volume	5	5	100% U721 U796
21b	Interpreting diagrams	1	0	0% U462
22	Pythagoras' theorem	3	3	100% U385
23a	Drawing distance time graphs	3	0	0% U966
23b	Calculating speed from a distance time graph	1	0	0% U462
24	Interpreting pie charts	3	1	33% U508
25	Probability of multiple outcomes, solving linear equations	4	0	0% U683
26a	Table of values for a quadratic	2	2	100% U989
26b	Drawing quadratic from a table	2	2	100% U989
27	Comparing numbers in standard form	2	2	100% U330
28	Changing the subject	2	1	50% U556
29	Using sine ratio to find a side	2	0	0% U283
Total Marks		80	49	

PAPER 3				
Q	Topic	Max	Actual	RAG Sparx
1	Comparing negative numbers and decimals	1	1	100% U947
2	Algebraic expressions	1	0	0% U613
3	Comparing fractions	1	1	100% U746
4	Calculating powers	1	1	100% U851
5a	Writing algebraic expressions	2	1	50% U613
5b	Simplifying algebraic expressions	3	2	67% U105
6	Number bonds to 12	4	2	50%
7a	Output from a function machine	1	1	100%
7b	Output from a function machine for equation input	1	1	100% U742
8a	Finding the mode from a bar chart	1	1	100% U363
8b	Mean from a bar chart	2	0	0% U291
8c	Interpreting a bar chart	2	0	0% U363
8d	Interpreting a statement about a bar chart	1	0	0% U363
9a	Factors	2	2	100% U211
9b	Simple probability of single event	1	0	0% U408
10	Reversing area calculations	3	3	100% U993
11	Number word problems	3	3	100% M928
12	Comparing fractions, decimals and percentages	2	2	100% U888
13a	Drawing a tangent to a circle	1	1	100% U767
13b	Area of a circle	1	0	0% U950
14a	Elevations and plan of a 3D shape	1	1	100% U743
14b	Elevations and plan of a 3D shape	1	1	100% U743
15	Cube numbers	3	2	67% U851
16a	Similar triangles, finding lengths	2	1	50% M377
16b	Similar triangles, finding angles	1	0	0% U551
17a	Sharing in a ratio	1	0	0% U577
17b	Sharing in a ratio	1	1	100% U577
18	Best buys	5	1	20% U721
19a	Listing outcomes	2	2	100%
19b	Finding a lower bound	2	1	50% U587
20	Calculating percentages	3	2	67% U888
21	Ratio problems	3	1	33% U753
22a	Properties of 2D shapes	1	0	0% U121
22b	Congruence	1	0	0% U866
23a	Writing error interval inequalities	2	2	100% U657
23b	Upper and lower bound calculations	2	0	0% U587
24a	Angles on parallel lines, solving equations	4	1	25% *****
24b	Solving equations, angles on straight lines	3	0	0% U325
25a	Fractions of amounts	3	3	100% U881
25b	Simple probability of single event	2	2	100% U683
26	Factoring quadratic with coefficient of x ² = 1	1	1	100% U365
27	Solving inequalities, integer solutions	2	1	50% U145
Total Marks		80	45	

Sparx and the Question Level Analysis (QLA)

PAPER 1

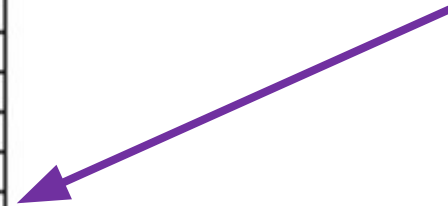
Q	Topic	Max	Actual	RAG	Sparx
1	Converting hours to minutes	1	1	100%	U902
2	Converting decimals/fractions and adding	1	1	100%	U888 U478 U756
3	Properties of 2D shapes	1	1	100%	U121
4	Solving simple linear equations	1	1	100%	U755
5	Multiplying 2-digit numbers	3	3	100%	U127
6a	Completing a frequency tree	4	4	100%	U881U554
6b	Probability from a frequency tree, simplifying fractions	2	2	100%	U280
7	Estimating calculations	2	1	50%	U225
8	Money calculations/Arithmetic word problems	6	6	100%	U478
9	Dividing decimals	2	2	100%	U868
10	Multiplying fractions, mixed numbers	2	2	100%	U475
11	Perimeter	4	0	0%	U993
12a	Substituting into formulae	1	1	100%	U589
12b	Solving linear equations	4	2	50%	U325
13	Order of operations	3	2	67%	U976
14a	Primes, squares, sample spaces	4	4	100%	U266 U851
14b	Sample spaces	1	1	100%	U104
15	Ratio problems	3	3	100%	U577
16a	Substituting into formulae, solving linear equations	2	2	100%	U201
16b	Plotting a straight line	2	0	0%	U741
17	Index laws	1	1	100%	U1662

- Each personalised QLA will identify strengths, highlighted in green, and areas for development highlighted in either amber or red
- This is a vital tool in gap closing both at teacher and student level
- Sparx clip numbers are provided for students to gap close independently

Sparx and the Question Level Analysis (QLA)

PAPER 1

Q	Topic	Max	Actual	RAG	Sparx
1	Converting hours to minutes	1	1	100%	U902
2	Converting decimals/fractions and adding	1	1	100%	U888 U478 U756
3	Properties of 2D shapes	1	1	100%	U121
4	Solving simple linear equations	1	1	100%	U755
5	Multiplying 2-digit numbers	3	3	100%	U127
6a	Completing a frequency tree	4	4	100%	U881 U554
6b	Probability from a frequency tree, simplifying fractions	2	2	100%	U280
7	Estimating calculations	2	1	50%	U225
8	Money calculations/Arithmetic word problems	6	6	100%	U478
9	Dividing decimals	2	2	100%	U868
10	Multiplying fractions, mixed numbers	2	2	100%	U475
11	Perimeter	4	0	0%	U993
12a	Substituting into formulae	1	1	100%	U585
12b	Solving linear equations	4	2	50%	U325
13	Order of operations	3	2	67%	U976
14a	Primes, squares, sample spaces	4	4	100%	U236 U851
14b	Sample spaces	1	1	100%	U104
15	Ratio problems	3	3	100%	U577
16a	Substituting into formulae, solving linear equations	2	2	100%	U201
16b	Plotting a straight line	2	0	0%	U741
17	Index laws	1	1	100%	U1662



Sparx Maths


Compulsory


XP Boost


Target


Independent Learning

Independent Learning

Find topics

My activity

Search for topics:

Enter topic name or code

Your curriculum:

Key Stage 3

Default level:

Level 2

Select a topic:

Number



Algebra



Ratio and Proportion



Geometry



Probability



Statistics



Sparx Maths

Compulsory
XP Boost
Target
Independent Learning

Independent Learning

Find topics | My activity

Search for topics:

Your curriculum: | Default level:

Select a topic:

- AQA Level 2 Further Maths
- Cambridge IGCSE (0580/0980)
- Edexcel International GCSE A
- Edexcel International GCSE B
- Fundamentals
- GCSE
- Key Stage 3
- OxfordAQA International GCSE

Number x^2

Ratio and Proportion

Probability

Statistics

[Independent learning](#) > [Number](#) > [Rounding](#)

Estimating calculations - U225

Level 3 ✓ ★ ★ ⓘ

∨ Show building blocks

Estimating



Introduce

Question 1

Answer

Question 2

Answer

Question 3

Answer

Question 4

Answer

Question 5

Answer

Question 6

Answer



Strengthen

Question 1

Answer

Question 2

Answer

Question 3

Answer

Question 4

Answer

Question 5

Answer



Deepen

Question 1

Answer

Question 2

Answer

Question 3

Answer

Question 4

Answer

Question 5

Answer

Question 6

Answer

Bookwork code: 1A



Calculator not allowed

Work out the missing values in the following estimation:

$$38 \times 227 \approx \text{_____} \times \text{_____}$$

[Watch video](#)

[Answer](#)

Next Steps

- Attend school *every single day*
- Attend Maths Enrichment *every Thursday*
- Attend lunch time support *every Tuesday*
- Take part in the raffle every break time - chance to win vouchers
- Complete Holiday Homework in *each half term*
- Complete all Compulsory Sparx tasks *every Friday*, plus Target and XP Boost tasks if you have the time
- Use your revision materials distributed tonight
- Know when your exams at STEP 2 will be and plan your revision
- Speak to Mrs Ralph or any member of the Maths team if you ever have any problems - we are here to support you in just 'doing well'!



English

Outcomes Focused, Child Centred

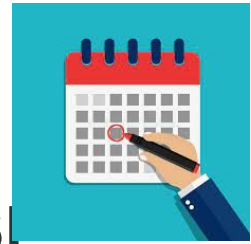
English

Contact:

Mrs Donarski – NET Subject Director
s.donarski@northerneducationtrust.org

Mrs Lonsdale – Head of English
a.lonsdale@dentoncommunitycollege.org.uk

Key Dates



External English Language and Literature GCSE Examinations

English Literature paper 1: **12th May, 2025** (1hr45m)

English Literature paper 2: **20th May, 2025** (2hr15m)

English Language paper 1: **23rd May, 2025** (1hr45m)

English Language paper 2: **6th June, 2025** (1hr45m)

All English exams are morning exams. Students need to arrive by 8.30am

The Myth

This is a myth-take, a myth-understanding... a bit hit and myth

'You can't revise for English'

*Two _____ and _____ legs of stone -
Ozymandias*

The Truth

KNOW the exam
KNOW the content
KNOW the approaches

'You can revise for English'

For Literature...

- **Re-read** the texts
- **Organise** your ideas
- **Memorise** quotations
- **Practise** the questions / skills
- **Discuss** ideas with people

For Language...

- **Read** texts
- **Memorise** terminology, features and effects
- **Practise** the question formats and skills
- **Expand** your vocabulary
- **Check** your knowledge of spelling and punctuation

General Revision Advice

- **1 hour of English revision each week** (minimum).
- There is no substitute for working through **sample questions** – these are easy to get hold of and just as easy to create.
- **Use things** (*terminology, creative writing features, paragraphing structures, planning models*) – the more you use them, the easier it becomes (build the schema!)
- **Practise the timings** – get used to how the questions *feel*... in real time...and at the right time.
- **Keep revisiting things** – the best way to learn is to keep returning to them, keep trying them again.
- **Little and often works** – cramming doesn't.
- **Regular snacks and drinks** help you to concentrate! Give yourself rewards, build positive associations.
- **Organise your space and avoid distractions**. Make sure you're not going to be interrupted (no phones, technology, people, TV).
- **Set yourself times and targets** (and stick to them). Stick to the same times each night – *get home, have tea, revise from 18.00-21.00, relax for a bit, go to bed*.
- **Revise with others**... get someone to test you, choose someone to bounce ideas about a text around with, have a conversation about a character... pester your parents, bribe your brother.
- **Get enough sleep**... 8-10 hours a night to help concentration. Be sensible.

AQA English Language 8700

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)

AQA English Language 8700

Paper 1: Explorations in Creative Reading and Writing

What's assessed

Section A: Reading

- one literature text

Section B: Writing

- descriptive writing

Assessed

- written
- 80 marks
- 50% of

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 literary text

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)

Skills based exam

Unpicking the **structures, connotations, and meanings**, of words and texts that students have not yet seen.



Remember, you must be able to **UNPICK** the quotes above.
STRONG unpicking always follows this equation:

- "INSERT QUOTE"
- [word class] + 'word'
- connotations
- demonstrates
- On a deeper level (if you can)

Repeat until you have unpicked all the key words in the quote.

AQA English Literature 8702

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.

AQA English Literature 8702

Paper 1: Shakespeare and the 19th-century novel

What's assessed

- Shakespeare plays
- The 19th-century novel

How it's assessed

- written exam
- 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

Knowledge based exam

Unpicking the **connotations**, and **meanings**, of **key quotations** and **key moments** of Literature texts.

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.

Literature

So How Do We Revise?

Prepare Profiles

- Three key points for each character and theme
- For each point, a quotation
- For each quotation, a technical term / feature

Post-Its and Index Cards

- Stick them everywhere with quotations on (and re-order them). Write, cover, repeat, write
- Annotate quotations – key features and ideas (tie to pictures!)... practise with the key words (highlight)
- Quiz yourself (and each other)

Memorise the Terminology

- Practise matching the words to definitions – dominoes!
- Scan the text and apply the technical terminology
- Quiz each other!

Re-Read the Texts!

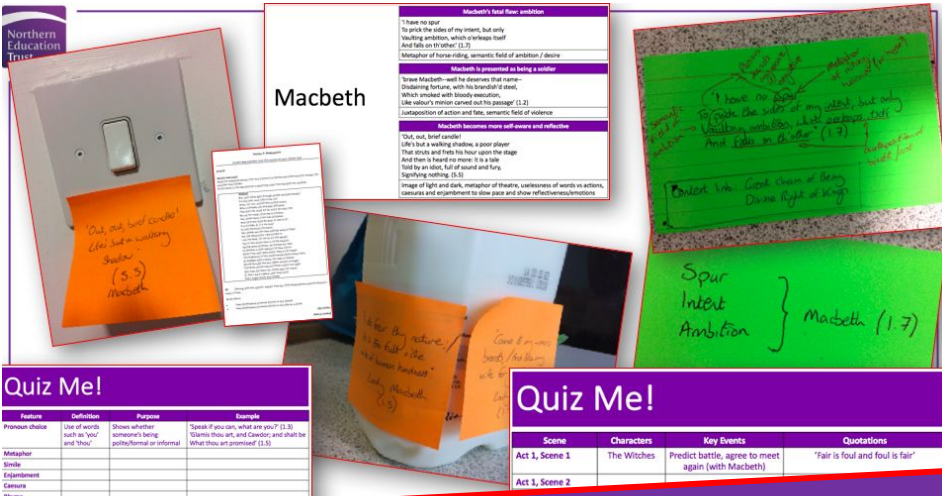
- Practise summarising the story
- List the key events
- Practise making links between different points
- Read poems and practise commenting on them

Practise the Questions

- Plan responses to key questions (including introductions)
- Discuss the characters and themes – what's the importance? What quotations are relevant? Do they change?

Head Online!

- Seneca
- Online study guides
- Video clips and podcasts



Language So How Do We Revise?

Quiz Me!

Feature	Definition	Effect	My Own Example
Alliteration	Repeating sounds	Depends – repeated 'p' sounds aggressive, 's' sounds calm'	Sudden successive flights of bullets streak the silence
Juxtaposition			
Complex sentence			



Andrew Street!

Can you...
 ... pick out FOUR things we learn?
 ... comment on a word or phrase used?
 ... comment on a linguistic feature used?
 ... identify something that grabs your attention at the start?
 ... pick out where the time, person, topic or place changes?
 ... give (and justify) an opinion about what's happening?
 ... talk about what the writer's trying to do and why?
 ... think of ways that what's happening is similar to or different from something else you've read?



Random Resources

- Choose ANY texts with words on and try to make points about them linked to...
- ...words and phrases, technical features, sentences

Post-Its and Index Cards

- Stick them everywhere with terminology and effects on (and re-order them). Write, cover, repeat, write
- Quiz yourself (and each other)
- Practise matching the words to definitions - dominoes

Prepare Sections

- Try out descriptive phrases and persuasive features
- Polish a piece of weather description and an emotive example

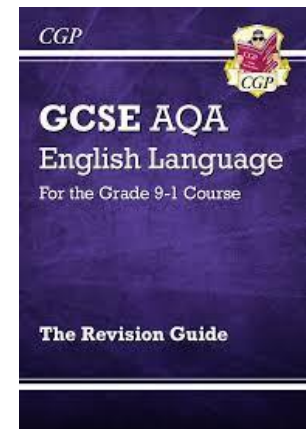
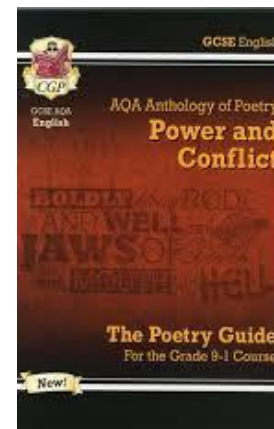
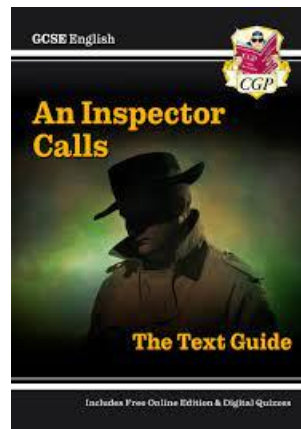
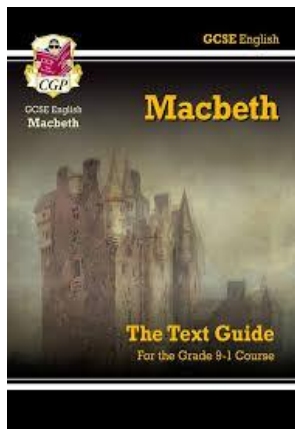
Practise the Questions

- Use sample texts and apply the question skills to them
- Rehearse the genres – plan text types and topics!

Read Fiction and Non-Fiction Texts

- Find examples of fiction and non-fiction and read them
- Practise the skills (words and phrases, structure etc.)
- Try to write your own in the same style

Materials Provided: Revision Guides



LITERATURE PAPER 2

AN INSPECTOR CALLS: Key Information



In your STEP 2 Literature, the first essay is on **AN INSPECTOR CALLS**. You should spend 45 minutes on this. On average, there will be a question on a CHARACTER, and a question on a THEME.

You will choose which question to complete. **YOU DO NOT ANSWER BOTH.** A top tip is to **complete the question on the theme** so that you can use all your character knowledge. An example is below:

J B Priestley: *An Inspector Calls*

Either

0 1

How does Priestley use the character of Eric to show the problems with society?

Write about:

- how Eric is presented in the play
- how Priestley presents society through what Eric says and does

[30 marks]
AO4 [4 marks]

OR

0 2

How does Priestley present the negative impact of money and wealth?

Write about:

- the impact of money and wealth in the play
- how Priestley presents the negative impact of money and wealth by the ways he writes

[30 marks]
AO4 [4 marks]

MINIMUM QUOTES TO MEMORISE FOR STEP 2

POETRY – SUPER 6 Poems we have studied		Do you know?
Ozymandias by Shelley	<ol style="list-style-type: none"> 1. “two vast and trunkless legs of stone” 2. “sneer of cold command” 	
The Emigree by Rumens	<ol style="list-style-type: none"> 1. “the bright, filled paperweight” 2. “I am branded by an impression of sunlight” 	
Remains by Armitage	<ol style="list-style-type: none"> 1. “Then I’m home on leave. But I blink” 2. “His bloody life in my bloody hands” 	
London by Blake	<ol style="list-style-type: none"> 1. “Chimney-sweeper’s cry, every blackning Church” 2. “Runs in blood down Palace walls” 	

AN INSPECTOR CALLS Learn at least ONE quote per character		Do you know?
Mr Birling	<ol style="list-style-type: none"> 1. “unsinkable, absolutely unsinkable” 2. “All mixed up together like bees in a hive... community and all that nonsense” 	
Mrs Birling	<ol style="list-style-type: none"> 1. “a rather cold woman and her husband’s social superior” 2. “girls of that class” 	
Sheila	<ol style="list-style-type: none"> 1. “But they’re not cheap labour, they’re people” 2. “Between us, we killed her” 	
Eric	<ol style="list-style-type: none"> 1. “Why shouldn’t they try for higher wages?” 2. “We all helped to kill her” 	
The Inspector	<ol style="list-style-type: none"> 1. “pink and intimate” / “brighter and harder” 2. “We are members of one body. We are responsible for each other.” 	

Supporting your child in English.

Comprehensive Revision Programme

English Enrichment takes place on a Monday, 2:30-3:30pm

Bespoke enrichment sessions run weekly on a Tuesday morning for invited students.

Intervention, including small group tuition, will take place throughout the year for students who are performing below their target grade.

Revision Guides

Revision booklets have been created by NET to support students with English Language and English Literature revision.

In addition, we will provide revision guides for both English Language and all English Literature texts.

STEP Assessments

Students sit past AQA papers every half term, to prepare them for the challenges of the real exam season. Marking is personalised and thorough to set students' individual targets at question-level.

“Director-Led Skills Sessions” are also scheduled weekly to support students with strategies and timings to use in the exam.

Exam Practice and Responding to Marking

Opportunities will be provided in class for students to tackle exam questions, reflect on models and receive targeted feedback which they can act on to improve their answers.

How can you help your child to succeed?

Home Learning

Encourage the regular use of the revision guides and quiz learners on key quotes and unpickings.

Assessment Support

Ensure your child completes practice exam questions in timed conditions and in a quiet environment.

Timing is key to balancing the requirements of the exam.

Culture of Reading

Encourage students to read widely, both non-fiction and fiction texts.

Encourage your child to read the set texts again (Macbeth, An Inspector Calls, A Christmas Carol, Poetry Anthology).

Quotation Recall

Help students with quotation recall by testing them on key quotations, plot points or subject terminology.

Revision cards are brilliant for this!



Science

Outcomes Focused, Child Centred

Science

Contact:

Mrs Jahangir – NET Subject Director
n.jahangir@northerneducationtrust.org

Ms Parveen – Head of Science
n.parveen@dentoncommunitycollege.org.uk

Year 11 Science – which course does your child study?

ation [GB] | <https://www.aqa.org.uk/subjects/science/gcse>



Contact us

About us

Log in

Site search



Subjects

Qualifications

Registration

Home / Subjects / Science / GCSE

GCSE Science

Specifications



GCSE Biology (8461)

Teaching from September 2016
Exams from June 2018



GCSE Chemistry (463)

Teaching from September 2016
Exams from June 2018



GCSE Combined Science: Synergy (8465)

Teaching from September 2016
Exams from June 2018



GCSE Combined Science: Trilogy (8464)

Teaching from September 2016
Exams from June 2018



GCSE Electronics (4430)

Exams from 2014

What does this mean?
What do I get at the end?

BIOLOGY, CHEMISTRY, PHYSICS
9
8
7
6
5
4
3
2
1
U

COMBINED SCIENCE
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
U

Current GCSE science	
Foundation	Higher
	9
	8
	7
	6
5	5
4	4
3	(3)
2	
1	
U	U



Students achieve 2 GCSE's from science

Outcomes Focused, Child Centred

TRILOGY and TRIPLE: 100% Examination; 6 Exams!

Exam	What	When (provisional)
1	Biology Paper 1	Friday 10th May
2	Chemistry Paper 1	Friday 17th May
3	Physics Paper 1	Wednesday 22nd May
4	Biology Paper 2	Friday 7th June
5	Chemistry Paper 2	Tuesday 11th June
6	Physics Paper 2	Friday 14th June

TRIPLE: each exam is 1hr 45mins

TRILOGY: each exam is 1hr 15mins

Biology

Biology Paper 1

Cell Biology

Organisation

Infection and response

Bioenergetics

Biology Paper 2

Homeostasis and response

Inheritance, variation and evolution

Ecology

Chemistry

Chemistry Paper 1

Atomic structure and the periodic table

Bonding, structure, and the properties of matter

Quantitative chemistry

Chemical changes

Energy changes

Chemistry Paper 2

The rate and extent of chemical change

Organic chemistry

Chemical analysis

Chemistry of the atmosphere

Using resources

Physics

Physics Paper 1

Energy

Electricity

Particle model of matter

Atomic structure

Physics Paper 2

Forces

Waves

Magnetism and electromagnetism
(plus Space physics – triple only)

Students need to get maximum marks from maths questions..

Physics Equations
 You must remember and be able to apply the following equations. Make sure you also know the units.

Equation number	Word equation	Symbol equation
1	weight = mass × gravitational field strength g	$W = mg$
2	work done = force × distance along the line of action of the force	$W = Fs$
3	force applied to a spring = spring constant × extension	$F = ke$
4	distance travelled = speed × time	$s = vt$
5	acceleration = $\frac{\text{change in velocity}}{\text{time taken}}$	$a = \frac{\Delta v}{t}$
6	resultant force = mass × acceleration	$F = ma$
7 HT	momentum = mass × velocity	$p = mv$
8	kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2}mv^2$
9	gravitational potential energy = mass × gravitational field strength (g) × height	$E_p = mgh$
10	power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
11	power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
12	efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
13	efficiency = $\frac{\text{total power output}}{\text{total power input}}$	
14	wave speed = frequency × wavelength	$v = f\lambda$
15	charge flow = current × time	$Q = It$
16	potential difference = current × resistance	$V = IR$
17	power = potential difference × current	$P = VI$
18	power = (current) ² × resistance	$P = I^2R$
19	energy transferred = power × time	$E = Pt$
20	energy transferred = charge flow × potential difference	$E = QV$
21	density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

10% maths in biology

20% in chemistry

30% in physics

You need to know how to use this in lesson **FIFA!**

F- Formula

I- Insert Value

F- Fine tune

A- Answer

Required Practicals:

*21 to learn for trilogy

*28 to learn for triple



Microscope



15 cm transparent ruler

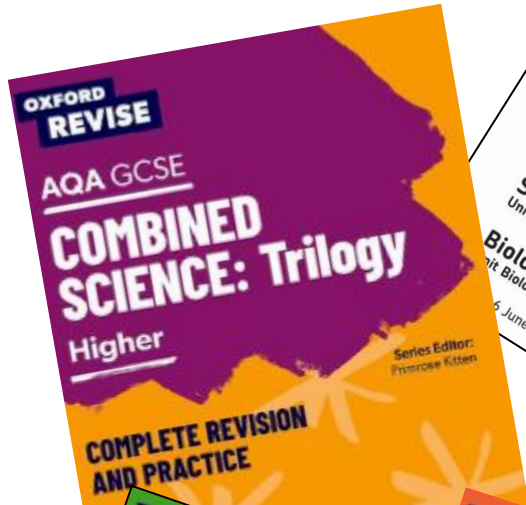


Prepared slide of onion cells

Describe how the student could use the apparatus to estimate the **mean** length of onion cells on the slide.

at least one to write about on each paper (so at least 6 will come up!)

Materials available for revision:



Centre Number _____
Surname _____
Other Names _____
Candidate Signature _____
Candidate Number _____

AQA
Science A
Unit Biology B1
Biology
Unit Biology B1
June 2014 1.30 pm to 2.30 pm

General Certificate of Secondary Education
Higher Tier
June 2014

BL1HP
H

Question	For Ex.	Examiner
1		
2		
3		
4		
5		
6		
7		
8		

SENECA
Biology: AQA GCSE Higher

- 1 Cell Biology
- 2 Organisation
 - 2.1 Principles of Organism
 - 2.2 Enzymes
 - 2.3 Circulatory System
 - 2.3.1 Blood Vessels
 - 2.3.2 Blood Vessels 2
 - 2.3.3 The Heart
 - 2.3.4 Circulatory System & Gas Exchange
- 2.3.5 Blood
- 2.3.6 Blood Cells
- 2.4 Non-Communicable...

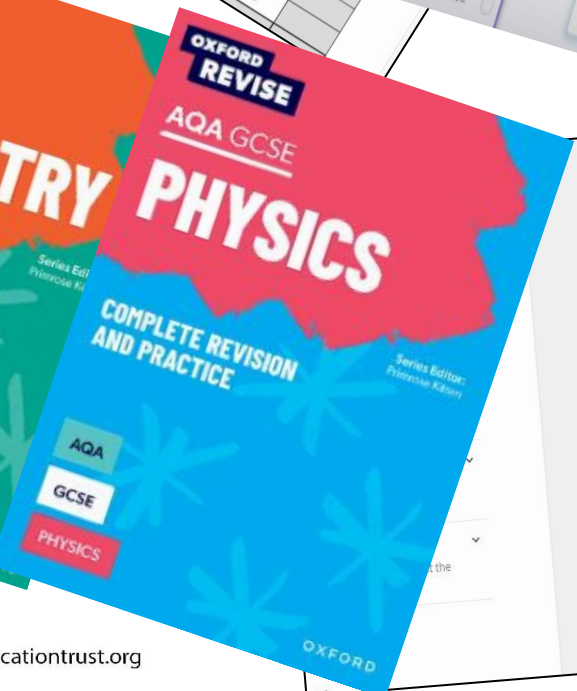
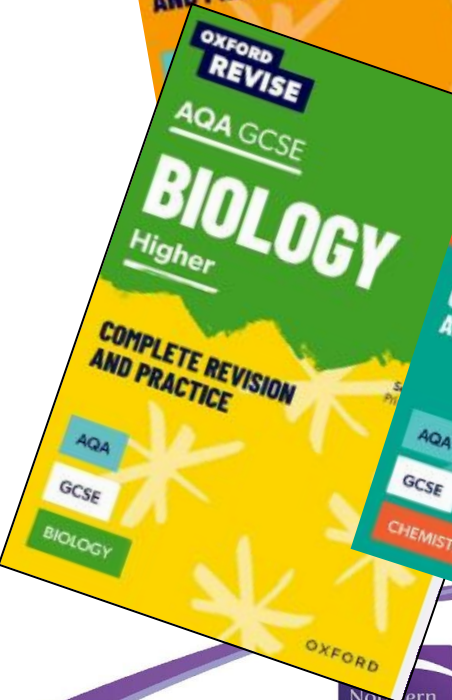
Organisation > Circulatory System > The Heart

You can use Seneca instead of revision guides! Students who use Seneca get 2x the marks as students who use revision guides.

Share topic: #

Structure of the Heart

- The heart is the muscular organ that pumps blood around the body.
- The heart has four chambers: the left and right atria and the left and right ventricles.
- It also contains valves and a pacemaker.
- The left atrium is on the body's left, but the diagram views this heart from a doctor's view.



Welcome to freesciencelessons

How to revise effectively

Hi and welcome to freesciencelessons.

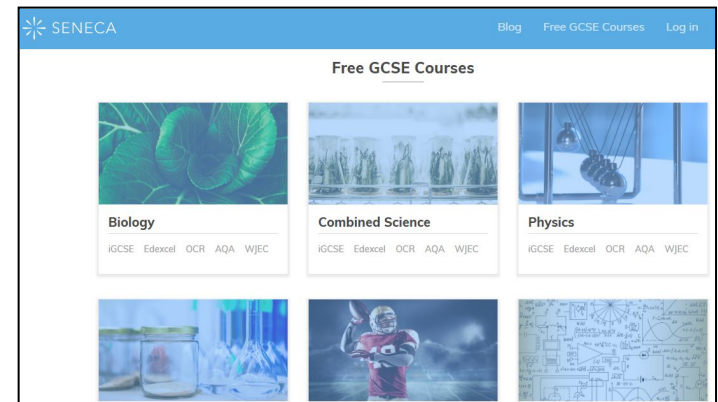
Materials available for revision

Seneca learning – online revision

This will start after Christmas.

Every student will know their login and password details by then.

A new Seneca assignment will be set every Monday and will be due every Friday.



STEP 2 -Revision Checklists

BIOLOGY PAPER 1		Page	CHEMISTRY PAPER 1		Page	PHYSICS PAPER 1		Page
1 st Exam			2 nd Exam			3 rd Exam		
	CELL BIOLOGY	2		ATOMIC STRUCTURE	180		ENERGY	318
	Cell structures	2		The atom	180		Energy stores & transfers	318
	Animal & plant cell	2		Sub atomic particles	181		Energy Equations	319
	Specialised cells	3		Separation Techniques	181		RP-Specific heat capacity	321
	RP-Microscopy	5		RP-Chromatography	183		National & global energy resources	326
	Cell transport	12		Covalent bonding	190		Energy resources advantages and disadvantages	327
	Osmosis, Diffusion and Active Transport	12		Giant covalent structures	191		ELECTRICITY	336
	RP-Osmosis	15		Ionic Bonding, metallic bonding & structures	200		Supplying Electricity	336

In the meantime..

Students are given a weekly theme (topic) Monday

Students are given a page from their Need to Know Books (currently paper version) on this topic and are expected to revise at home to prepare for their weekly quiz

Students have a weekly quiz on Friday, teacher feedback is given and opportunity for students to assess their learning weekly

KS4 KRS 3 – Biology: Infection & Response

Key Vocabulary:

1	Pathogen	A microorganism which causes infectious disease
2	Engulf	To take in / surround
3	Digest	Break down using enzymes
4	Toxin	A chemical (poison) which makes us ill
5	Antigen	Protein structure on a cell's surface
6	Antibody	Proteins produced by white blood cells that attach to antigens
7	Immunity	When your immune system can fight off a pathogen, without you becoming ill
8	Drug	A substance which changes the chemical processes in your body
9	Antibiotic	Medicines that only kill bacteria
10	Painkiller	Treat the symptoms of an illness, not the infection
11	Placebo	A fake drug
12	Double Blind Trial	Neither the doctor or patient know who has been given the drug or placebo
13	Drug Trial	New drugs are tested for safety, efficacy and dose
14	Efficacy	How effective the drug is at treating the disease
15	Dose	The correct amount of drug to be given

Pathogens:

16	Bacteria	Produce toxins which damage tissues • Salmonella • Gonorrhoea Bacterial infections can be treated with antibiotics
17	Virus	Live and reproduce inside of cells, damaging the cells • Malaria • HIV • TB
18	Fungus	Can be treated using fungicide • Rose black spot
19	Protists	Malaria spread by mosquito

Immunity:

20	White blood cells	defend against pathogens by: • Engulfing & digesting the pathogen • Producing antibodies • Producing antitoxins
21	Vaccination	Inject a dead / inactive pathogen • White blood cells produce antibodies • Memory cells produced Your body produces the correct antibodies quickly and in large amounts if you become infected again
22	Monoclonal Antibodies (TRIPLE ONLY)	1. Inject a pathogen into a mouse 2. Spleenic antibodies collected 3. A hybridoma is created 4. Hybridoma reproduces rapidly producing the specific antibody

Drug Development:

23	Drug discovery	many drugs are extracted from microorganisms or plants • Digitalis - heart drug from foxgloves • Aspirin - paracetamol from willow trees • Penicillin - antibiotic from penicillium-mould
24	Drug Trials	1. Pre-clinical trials - tested on cells, tissues or animals. To test toxicity 2. Healthy volunteers - to test for side effects 3. Volunteers with disease - test for efficacy 4. Larger group of volunteers with disease - to test the optimum dose The drug trials use a placebo and are double blind to ensure reliable results

Plant Diseases & Defences (TRIPLE ONLY):

25	Signs of Disease	Spots on leaves, stunted growth, decay, growth or discoloration
26	Disease Identification	• Observing symptoms • Microscopy • Laboratory testing for pathogens • Monoclonal antibody testing kits
27	Ion deficiency	• Nitrate ions are needed for protein synthesis / leading to stunted growth • Magnesium ions are needed for chlorophyll / leading to chlorosis (yellowing of leaves)
28	Plant Defences	• Physical - strong cellulose cell walls, tough waxy cuticle on leaves and bark around stem • Chemical - antibacterial chemicals / poisons when touched and surgery

Outcomes Focused, Child Centred

1	What is a toxin?	A chemical (poison) which makes us ill
2	What is a placebo?	A fake drug
3	Do antibiotics kill viruses or bacteria?	Bacteria
4	Name a disease spread by mosquitos	Malaria
5	Which tree does aspirin come from?	Willow
6	What is in a vaccination?	A dead or inactive form of a pathogen
7	What type of pathogen causes measles?	virus
8	Why are pre-clinical drug trials needed?	To check drugs for toxicity
9	Which type of blood cells produce antibodies?	White
10	Drug trials use a placebo and are _____ to ensure reliable results	double blind

How can you support at home?

- Science is content heavy, encourage your child to revise at home regularly
- Help create a revision timetable for your child to help with this
- Try to make some time to check your child is completing their revision
- Encourage the use of revision resources/materials at home
- Attending enrichment will help your child with managing their revision regularly, where an expert teacher is available to support also

How we can support you in Science...

There is a whole range of additional support on offer for Year 11

Students will have the opportunity to attend the following after half term:

- *Science Enrichment- Wednesday*
- *Group intervention with the Director*
- *Tutor Group Science*

All students will receive a pack tonight with some revision resources

Speak to Ms Parveen or any member of the Science team if you ever have any problems



Science

Takeaways

Combined
Science
Trilogy



AQA
Questions matter

Biology Paper 1

1. Cell biology
2. Organisation
3. Infection and response
4. Bioenergetics

Biology Paper 2

5. Homeostasis and response
6. Inheritance, variation and evolution
7. Ecology



Chemistry Paper 1

1. Atomic structure and the periodic table
2. Bonding, structure, and the properties of matter
3. Quantitative chemistry
4. Chemical changes
5. Energy changes

Chemistry Paper 2

6. The rate and extent of chemical change
7. Organic chemistry
8. Chemical analysis
9. Chemistry of the atmosphere
10. Using resources



Physics paper 1

1. Energy
2. Electricity
3. Particle model of matter
4. Atomic structure

Physics paper 2

5. Forces
6. Waves
7. Magnetism and electromagnetism

Science

Takeaways

Combined
Science
Trilogy



AQA
Questions matter

Specification



Useful revision website



Watch the practice



BIOLOGY PAPER 1	Page
1 st Exam	
CELL BIOLOGY	
Cell structures	2
Animal & plant cell	2
Specialised cells	3
RP-Microscopy	5
Cell transport	12
Osmosis, Diffusion and Active Transport	12
Adaptations for exchange surface area	13
	15

CHEMISTRY PAPER 1	Page
2 nd Exam	
ATOMIC STRUCTURE	
The History of the Atom	184
Sub atomic particles	184
Separation Techniques	185
RP-Chromatography	187
Covalent bonding	194
Giant covalent structures	195
Ionic Bonding, metallic bonding & structures	204
Properties of METALS	205

PHYSICS PAPER 1	Page
3 rd Exam	
ENERGY	
Energy stores & transfers	336
Energy Equations	337
RP-Specific heat capacity	339
National & global energy resources	346
Energy resources advantages & disadvantages	346
ELECTRICITY	
Supplying Electricity	356
Plugs	356



STEP 2

11th - 22nd November

Outcomes Focused, Child Centred



11 school days

