

### Y10 Work Experience & Curriculum Evening Thursday 26th September





### Welcome to the Education Business Partnership (EBP)



### **Introduction to Key Stage 4**

3 steps to success:

Be READY

ENGAGE



### I. Be READY

- Arrive to school each day:
  - On time
  - With correct uniform
  - With the full equipment

2 x Black pen 2 x Pencil Ruler Rubber Sharpener Purple pen Scientific calculator Glue stick Reading book



"The first mistake is never the one that ruins you. It is the spiral of repeated mistakes that follows. Missing once is an accident. Missing twice is the start of a new habit." *James Clear* 



Engage fully in all lessons and activities on offer.

Engage in support when offered.

Engage in discussions with teachers and peers.



### 3. Recall

### Complete all homework each week. It has been shown that recall tasks can significantly affect attainment.



There is a strong correlation of completing recall tasks for homework and the final grade you achieve at the end of Year 11.

### 3. Recall - Expectations

Weekly homework expectations:

<u>English</u> - Tassomai (100% weekly goal) <u>Maths</u> - Sparx (50% complete by Monday, 100% completed by Wednesday each week) <u>Science</u> - Tassomai (100% weekly goal) Options subjects will inform you during the carousel





### **GCSE** Mathematics



### Students study AQA GCSE Mathematics

Foundation or Higher

Paper 1 - Non-Calculator Paper 2 - Calculator Paper 3 - Calculator



Scientific Calculator Pens Pencils Rubber Ruler Sharpener Compass Protractor











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Home Teachers & Leaders 🗸

Sparx Curriculum New!

News & Updates 🗸

Register interest

Log in 🗸

### Personalised maths homework, proven to boost student grades

1 hour of Sparx Maths a week significantly improves student grades.

Covers ages 11-16 for UK and international mathematics curricula.

- Provides actionable insights for school leaders and teachers.
- The evidence-based system that maths departments love.



Sparx Maths in two minutes



Students are expected to complete; 50% by Monday 100% by Wednesday

#### Year 10 Autumn 1 ASK

	Progress towards		Mastering	]
	I have become fluent in	I have developed my reasoning skills by	I have been problem solving through	Sparx
Equations and inequalities	Forming and solving linear equations Forming and solving linear inequalities Plotting straight line graphs Finding solutions to equations usinng straight line graphs Representing solutions to inequalities on a graph Factorising expressions into double brackets	Deciding how best to represent a situation Knowing when and how to simplify expressions Making connections between relationships and their algebraic representations Identifying variables and expressing relationships between variables algebraically	Modelling problems by writing them as equations and Solving multi-step problems by representing them as equations and inequalities Selecting appropriate methods and techniques to apply to problems Representing equations and inequalities in a wide variety of	U870, U599, U509, U759, U738, U337, U747, U228, U960, U133
Simultaneous equations	Solving quadratic equations by factorising Solving a pair of simultaneous equations by substitution Solving a pair of simultaneous equations graphically Solving a pair of simultaneous equations by adding or subtracting Solving a pair of simultaneous equations with one linea and one quadratic	Making connections between different representations of problems Knowing when to use each method of solving a pair of simultaneous equations	forms Modelling problems and writing them as simultaneous equations Choosing the most appropriate method to use to solve a pair of simultaneous equations	U836, U760, U757, U547, U137

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#### Independent Learning

Find topics	My activity				
earch for topics:		Your curricu	um:		Default level:
U870	۲	GCSE		•	Level 3 🗸
1 topic found					Clear search
Algebra > Solving equations Solving equations v	vith the unknown on b	oth sides – U87(	)		>
Ratio and Pro	portion	3:2	Geometry		
Probability			Statistics		<u>.al</u>







\* \* - 0



### 3A

Chris inputs the same number into both of these function machines. The output he is given is the same for both machines. What number has he input?

3D

3E

not allowed

Summary

3B

3C

Bookwork code: 3D



### Support video

Nath

**XID XID** 





AQA GCSE

MATHS

Foundation

AQA

GCSE

MATHS

COMPLETE REVISION AND PRACTICE **Recommended revision guides** 

OXFORD

REVISE

AQA GCSE MATHS

Higher

COMPLETE REVISION AND PRACTICE



### 🐵 Knowledge 🥂 🔨



#### 5 Percentages

#### Calculating percentages of amounts without a calculator



#### Calculating percentages of amounts with a calculator

#### You can calculate percentages of amounts using multipliers.



# Worked example Increase 75 by 8% 100% + 8% = 108% Add the percentage 108% = 108 Find the multiplier. 1.08 × 75 = 81 +

#### Percentage decrease If value has been decreased by 10% ... original 100% now have 90% 10% Worked example Decrease 75 by 8% 100% - 8% = 92% Subtract the percentage from 100. $92 = \frac{92}{100} = 0.92$ Find the multiplier. $0.92 \times 75 = 69$ Multiply by the original amount.

#### Express one quantity as a percentage of another

First write the rules as a fraction, then convert this to a percentage.



#### 5

### 🕝 Retrieval

#### 5 Percentages

Learn the answers to the questions below, then cover the answers column with a piece of paper and write as many as you can. Check and repeat.

	Questions		Answers	
0	How do you find 50% of a number?	р	Divide by 2.	
0	How do you find 10% of a number?	Put pope	Divide by 10.	
0	How do you find 1% of a number?	Ir here	Divide by 100,	
0	How do you convert a percentage to a decimal?		Divide by 100.	
0	What is a multiplier?	Put paper	A number, usually a decimal, which is used to calculate a percentage of an amount.	
6	What is the formula for percentage change?	here	Original amount × multiplier = new amount.	
0	What multiplier would you use to find an increase of 13%?	Put	1.13	
0	What multiplier would you use to find a decrease of 67%?	t paper here	0.33	
0	What is simple interest?	ne Put	A fixed amount of interest calculated as a percentage of the original amount invested, that is added to a bank account each year.	
0	Given that interest is paid at the end of each year, will simple interest give the same amount of money as compound interest at the end of year 2?	t paper here	No, because the simple interest for year 2 is based on the initial sum invested, whereas the compound interest for year 2 is based on the initial sum invested plus the interest earned in the first year.	

#### **Previous questions**

Now go back and use these questions to check your knowledge of previous topics.

Questions	Answers	
How do you subtract two fractions?	Write all the fractions with common denominators then subtract the numerators.	
2 What is the reciprocal of a number?	The reciprocal of a number is $1 \div$ the number, i.e the reciprocal of a is $1/a$ .	
3 What is a square number?	A number multiplied by itself.	
What is the general form of a number written in standard form?	$a \times 10^{\circ}$ where $1 \le a < 10$ .	

	🔊 Retrieval	
	1 Basic number	
	up the servers to the questions below; then cover (	
ot	paper and write as many as you can. Check and high	
	Questions	
0	What do the letters of BIOMAS stand for?	
0	Which part of the following calculation would you do first? 24 - 3 × 8	
	a>b Which is the Targer number?	
	What can you use to help you order all types of numbers?	
	What can you do to make ordering decimal numbers easier?	
0	What does the second number after the decimal point count?	
0	When you tound to the restrict thousand, which number do you need to look at to decide whether to round up or down?	
0	Nem you nund a number to 1 decimal place, which number do you need to look at to decide hetere to nundu go er down?	
0	that are error intervals used to measure?	
-	ben yeu multiply a number by a power of 10, which farection does the number move on e place value chan?	
	her yes divide a number by a power of 10, in with direction does the nomber move on the	
dec	ter you round a number to two significant ures, which number do you need to look at to de whether to round up or down?	
() In	reambers less than 1, do you count the ding zeroes when rounding to a given hore of significant Rigures?	
What What	el is the first significant (igure)	
R. Whe	m rounding 2409 to 2 s.f., what is this the	
When	n you are asked to estimate, what should build each number to:	
0 18	lesic number	



Maths scores.

Work out the missing English score in the table.



### How to help your child succeed!

- 1. Make sure your child is well equipped
- 2. Assist your child in organising their time
- 3. Remind your child about their Sparx
  - a. 50% completed by Monday
  - b. 100% complete by Wednesday
- 4. Encourage your child to seek support at school.
  - a. Sparx support every break and lunch available.



### **Exam Information**

	<b>Double Science – Trilogy</b>	Triple
Biology x2	Trilogy –Biology 1hr 15m	Biology 1hr 45m
xz Chemistry	Trilogy – Chemistry	Chemistry
x2	1hr 15m	1hr 45m
Physics	Trilogy – Physics	Physics
x2	1hr 15m	1hr 45m

### Paper 1 vs Paper 2

	Paper 1	Paper 2	
Biology	-Cell Biology -Organisation -Infection and response -Bioenergetics	-Homeostasis and response -Inheritance, Variation and Evolution -Ecology	
Chemistry	<ul> <li>Atomic Structure and the Periodic table</li> <li>Bonding, structure and properties of</li> <li>matter</li> <li>Quantitative Chemistry</li> <li>Chemical changes</li> <li>Energy changes</li> </ul>	<ul> <li>The rate and extent of reaction</li> <li>Organic Chemistry</li> <li>Chemical analysis</li> <li>Chemistry of the atmosphere</li> <li>Using resources</li> </ul>	
Physics	-Energy -Electricity -Particle model of matter -Atomic Structure	<ul> <li>-Forces</li> <li>-Waves</li> <li>-Magnetism and Electromagnetism</li> <li>-Space (PHYSICS GCSE only)</li> </ul>	

Higher Paper - Grades 9-4 (less than 4 is a U grade)

#### <u>Foundation Paper</u> - Grades 5-1 (Small reduction in content)

For each exam:

- Combined 70 marks per paper (420 marks)
- Triple 100 marks per paper (200 marks per subject)

All 6 papers count towards the final grade for Combined Science, which is a <u>double</u> award e.g. 6,6

Each set of papers for Biology, Chemistry and Physics will give 3 separate grades for Triple.

Consistent 5s are needed for higher tier entry.

### **Required Practicals**

Your exam will include questions that require knowledge of several practical methods and the apparatus that you would use and why.

#### Required practical resources:

- Summary sheet on Y11 revision google classroom
- Exam questions and notes in books
- Youtube clips "required practical and topic name"
- Focus e-learning via google classroom
- Mock papers

## What does revision look like in science?

#### Google Classroom:

https://classroom.google.com/c/MTUzODcxMjY2NzBa?cjc=jswlfrr







Physics [AQA] / 04: Atomic Structure / 3.3: Uses of Nuclear Radiation [S] Last Seen: 16/06/21 Last 3 Attempts: 📀 😪 🗙

Of the following options, which is NOT a safety precaution in relation to RADIOACTIVE materials?

Stay close to the substance when using it to PREVENT it from dropping

Keep exposure time as SHORT as possible

STORE radioactive materials in LEAD lined containers with the appropriate LABELS

wear lead lined PROTECTIVE clothing

Interleaving - This requires your child to be able to link between topics

Can your child link the words:

"Photosynthesis" to "Cells" "Photosynthesis" to the "E.M spectrum"

To access grades 5-9 they need to be able to apply the knowledge and make links between topics within the paper.

### **Learning resources for Science**







### Year 10 Family Learning

# Ethics and Philosophy
Christian beliefs The nature of God Different Christian beliefs about creation Different Christian beliefs about the afterlife The crucifixion, resurrection and ascension Salvation

Christian practices Baptism Christmas and Easter The place of mission, evangelism and Church growth. The Worldwide Church How Christian churches respond to persecution

#### Islamic Beliefs The nature of God Angels, their nature and role, including Jibril and Mika'il. Risalah (Prophethood) including the role and importance of Adam, Ibrahim and Muhammad. The holy books The imamate in Shi'a Islam

Islamic practices Salah Zakah Hajj Jihad Festivals

### **GCSE Religious Studies**

Relationships & families

Sex

Marriage Divorce Contraception Same sex relationships

Family life

Gender Equality

Religion peace & conflict

Peace & Justice

Terrorism Violence Just War Weapons of Mass Destruction

Peace-making

Religion crime & punishment

Crime

Punishment Forgiveness The Death Penalty Religion human rights and social justice Prejudice and Discrimination Freedom of religion Human rights Wealth Poverty

Paper one (1hr 45min) Paper two (1hr 45min) Christianity teachings, beliefs and practices Islamic teachings, beliefs and practices

**Relationships and** families **Religion**, peace and conflict **Religion**, crime and punishment Religion, human rights and social justice

**OCSE Religious Studies** 

## GCSE English Language and Literature



## Year 10 Family Learning

# GCSE English Language



Total exam time: 1 hour and 45 minutes Total exam time: 1 hour and 45 minutes

# GCSE English Literature



## "You can't revise for English!"

Students are rigorously prepared with **model answers**, **walking talking mocks** and **metacognitive teaching of skills** and how to approach each task.

AQA divides English Language and English Literature into 4 separate exam papers; each paper has a different topic, skill set and focus.

So, know thy enemy; make sure you know what each paper asks of you. This is particularly useful when it comes to the 'unseen' section of the paper as you can practise the skills here at your leisure.

A great way to revise is timed practice! Complete a mini mock once a week and you'll walk into that hall armed for battle!



shows you how

## **English Learning Journey**







Extended

WRITING

READING

# GCSE English Literature





In this extract, the Ghost of Christmas Present shows Scrooge the Cratchit family's Christmas celebrations.

Oh, a wonderful pudding! Bob Cratchit said, and calmly too, that he regarded it as the greatest success achieved by Mrs. Cratchit since their marriage. Mrs. Cratchit said that now the weight was off her mind, she would confess she had had her doubts about the quantity of flour. Everybody had something to say about it, but nobody said or thought it 5 was at all a small pudding for a large family. It would have been flat heresy to do so. Any Cratchit would have blushed to hint at such a thing. At last the dinner was all done, the cloth was cleared, the hearth swept, and the fire made up. The compound in the jug being tasted, and 10 considered perfect, apples and oranges were put upon the table, and a shovel-full of chestnuts on the fire. Then all the Cratchit family drew round the hearth, in what Bob Cratchit called a circle, meaning half a one; and at Bob Cratchit's elbow stood the family display of glass. Two tumblers, and a custard-cup without a handle. These held the hot stuff from the jug, however, as well as golden goblets 15 would have done; and Bob served it out with beaming looks, while the chestnuts on the fire sputtered and cracked noisily. Then Bob proposed: "A Merry Christmas to us all, my dears. God bless us!" Which all the family re-echoed. "God bless us every one!" said Tiny Tim, the last of all. 20 He sat very close to his father's side upon his little stool. Bob held his withered little hand in his, as if he loved the child, and wished to keep him by his side, and dreaded that he might be taken from him.

#### 0 8

Starting with this extract, explore how Dickens uses the Cratchit family to show the struggles of the poor.

#### Write about:

- · how Dickens presents the Cratchit family in this extract
- how Dickens uses the Cratchit family to show the struggles of the poor in the novel as a whole.

[30 marks]

	AO1	<ul> <li>Critical, exploratory, conceptualised response to task and whole text</li> <li>Judicious use of precise references to support interpretation(s)</li> </ul>
Level 6 26–30 marks	AO2	<ul> <li>Analysis of writer's methods with subject terminology used judiciously</li> <li>Exploration of effects of writer's methods on reader</li> </ul>
	AO3	• Exploration of ideas/perspectives/contextual factors shown by specific, detailed links between context/text/task
	AO1	<ul> <li>Thoughtful, developed response to task and whole text</li> <li>Apt references integrated into interpretation(s)</li> </ul>
Level 5 21-25 marks	AO2	<ul> <li>Examination of writer's methods with subject terminology used effectively to support consideration of methods</li> <li>Examination of effects of writer's methods on reader</li> </ul>
	AO3	• Thoughtful consideration of ideas/perspectives/contextual factors shown by examination of detailed links between context/text/task
Level 4 16-20 marks	AO1	<ul> <li>Clear, explained response to the task and whole text</li> <li>Effective use of references to support explanation</li> </ul>
	AO2	<ul> <li>Clear explanation of writer's methods with appropriate use of relevant subject terminology</li> <li>Understanding of effects of writer's methods on reader</li> </ul>
	AO3	• Clear understanding of ideas/perspectives/ contextual factors shown by specific links between context/text/task
	AO1	<ul> <li>Some explained response to task and whole text</li> <li>References used to support a range of relevant comments</li> </ul>
Level 3 11-15 marks	AO2	<ul> <li>Explained/relevant comments on writer's methods with some relevant use of subject terminology</li> <li>Identification of effects of writer's methods on reader</li> </ul>
	AO3	Some understanding of implicit ideas/ perspectives/contextual factors shown by links between context/text/task

#### English Literature Mark Scheme

## What is 'critical style'?

- Step back from the text
- Look at it closely
- Pick apart the meanings and ideas
- What are we supposed to think or feel?
- Why?

- Introduction with reference to big ideas the writer wants us to consider
   WHW
- Evaluative phrases

A01	Read, understand and respond to texts.				
	Students should be able to:				
	<ul> <li>maintain a critical style and develop an informed personal response</li> </ul>				
	<ul> <li>use textual references, including quotations, to support and illustrate interpretations.</li> </ul>				
AO2	Analyse the language, form and structure used by a writer to create meanings and effects, using relevant subject terminology where appropriate.				
A03	Show understanding of the relationships between texts and the contexts in which they were written.				



## How can I help my child to prepare for their GCSEs?

- Get them organised!
- Read together wider reading around the context and themes is an excellent way to enrich knowledge for literature.
- Flash cards quotes and question and answers mind maps, revision clocks and the revision toolkit.
- Tassomai!
- Read and even rewatch the Literature texts!
- Use our booklets and google classrooms.
- Pixl lit App.
- Mr Bruff/Stacey Reay/Glow Up Your Grades videos on Youtube.
- Collins Snap Revision guides.
- Pre-prepared introductions.
- Practice essays.

## An Inspector Calls trip

# GCSE English Language



Total exam time: 1 hour and 45 minutes Total exam time: 1 hour and 45 minutes

English Language Exams

#### Paper One – 1 hour and 45 minutes

- 1) Information retrieval (AO1)
- 2) Language analysis (AO2)
- 3) Structural analysis (AO2)
- 4) Evaluation (AO4)
- 5) Writing task (AO5 and AO6)

#### Paper Two – 1 hour and 45 minutes

- 1) True/false statements (AO1)
- 2) Summarise (AO1)
- 3) Language analysis (AO2)
- 4) Comparison (AO3)
- 5) Writing (AO5 and AO6)









Year 11 GCSE English Language Paper 1 Explorations in creative reading and writing Metacognitive Booklet

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factors agains	
GCSE	
ENGLISH LANGUA	AGE
(8700)	
laper 1 Explorations in creativ Tree allocant 1 hour 25 minutes	
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	8700/1

#### Name:

Class:

Teacher:

### **Example Questions**

0	1	Ĩ
	100	

Read again the first part of the source, from lines 1 to 4. List four things about Mr Fisher from this part of the source.

[4 marks]

[8 marks]

0 2

Look in detail at this extract, from lines 9 to 15 of the source:

Mr Fisher remembered a time – surely, not so long ago – when books were golden, when imaginations soared, when the world was filled with stories which ran like gazelles and pounced like tigers and exploded like rockets, illuminating minds and hearts. He had seen it happen; had seen whole classes swept away in the fever. In those days, there were heroes; there were dragons and dinosaurs; there were space adventurers and soldiers of fortune and giant apes. In those days, thought Mr Fisher, we dreamed in colour, though films were in black and white, and good always triumphed in the end.

> How does the writer use language here to convey Mr Fisher's views on books and stories of the past?

You could include the writer's choice of:

- words and phrases
- language features and techniques
- sentence forms.



### Paper One, Question Two Example

Using lines 7-17.

# How does the writer use language to describe the cat's actions/behaviour?

For days the weather had been very bitter, and all the feebler wild things which were his prey had kept, for the most part, in their burrows and nests, and the Cat's long hunt had availed him nothing. But he waited with the inconceivable patience and persistency of his race; besides, he was certain.
The Cat was a creature of absolute convictions, and his faith in his deductions never wavered. The rabbit had gone in there between those low-hung pine boughs. Now her little doorway had before it a shaggy curtain of snow, but in there she was. The Cat had seen her enter, so like a swift grey shadow that even his sharp and practised eyes had glanced back for the substance following, and then she was gone. So he sat down and waited, and he waited still in the white night, listening angrily to the north wind starting in the upper heights of the mountains with distant screams, then swelling into an awful crescendo of rage, and swooping down with furious white wings of snow like a flock of fierce eagles into the valleys and ravines.

### Paper One, Question Two - Example Response (WHW)

The cat is shown to be patient despite an unsuccessful hunt so far. Despite a "long hunt" he was still "certain" that he would catch something. The noun phrase "long hunt" implies that he is desperate for food and has no other option so remains committed invoking sympathy from the reader. The adjective "certain" juxtaposes this negative feeling as he is still positive that he will succeed. He continues the hunt with "inconceivable patience and persistence". The alliterative nouns describe the cat's positive attributes as he is still committed to finding food. The reader admires this behaviour, but may also be concerned that he is committed simply because he has no other option and needs food.

#### How else could you describe the cat's actions/behaviour?

### What How Why

What	The writer presents as The reader is then forced to consider
How	Quotation – embed it OR This is shown when The adjectives/noun/verb/phrase/image/simile/metaphor/zoomorphism/alliteration This suggests/ implies/ indicates/ demonstrates/ portrays/ presents/ highlights/ emphasises/reinforces/develops/creates/hints at It could be argued that/the reader may infer
Why	The writer wants us to understand the significance of Alternatively,

## How to Revise for English Language

In order to prepare effectively for the exams, you could:

- Revise HOW to answer questions by reading through the booklets completed in class.
- Read pieces of 19th century writing (resources available on Google Classrooms)
- Read a range of fiction and non-fiction analyse how perspectives and points of view are established.
- Answer one question a night from sample/made up papers (in Google Classroom) and build up to spending the full-time on a paper during weekends
- Plan responses to creative writing tasks
- Plan responses to non-fiction writing tasks particularly articles
- Work on technical accuracy can you improve sentences? Do you know what a complex sentence is? Do you know where to use a semi-colon?
- Use Tassomai
- Use Seneca
- Alongside your booklets and the notes from class, we recommend the Collins Snap revision guide.