

Tudor Grange Academy Trust

# Tudor Grange Academy Redditch

# Starting Your GCSEs



### Message from our Principal







Tudor Grange Academy Trust

# The purpose of this evening





Grading

Legacy	New	Vocational	COMBINED SCIENCE
GCSEs	GCSE Grades	Qualifications	9-9
	9		9-8
<b>A</b> *	8	Distinction * 8.5	<u> </u>
А	7	Distinction <b>7</b>	7-7
			7-6
В	6	Merit <b>5.5</b>	6-6
	5		6-5
с	4	Pass 4	5-5
-	4		5-4
D	3	Distinction * 3	4-4
E	•		4-3
E	2	Distinction 2	3-3
F	2	Merit 1.5	3-2
6	1	Pass 1	2-2
G	1		2-1
U	U	Not Yet Achieved	1-1
0	0	(NYA)	U



### Data we will share

Tudor Grange Academy Trust

Projections: The grade we predict students will get at the end of Year 11 based on their performance in assessments

Minimum Expected Outcome: The minimum grade students should achieve

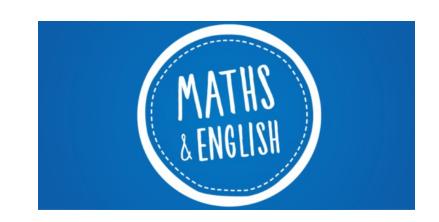
Target Grade: The grade students should aim for





Leaving with the best currency

Tudor Grange Academy Trust



English: 4 Maths: 4 English:5Maths:5

English: 4 Maths: 3



# Know the exam boards







### Key Dates

2022/2023					
HT1	GCSE Studies Start				
HT2	TA1 Assessments				
НТЗ	Yr10 TA1 Projections released Yr10 Progress evening				
HT4					
HT5	TA2 Assessments				
НТ6	Yr10 TA2 Projections released				



Key Dates

2023/2024				
HT1	Elevate Information Evening			
HT2	After school revision starts Elevate Yr11 Mock Examinations Yr11 Study Skills Evening Sixth Form open evening Yr11 Mock results released			
HT3	Yr11 Progress Evening Elevate			
HT4	Yr11 Mock Examinations Yr11 Mock Results Released			
HT5	GCSE Exams Start			
HT6	GCSE Exams End Leavers Assembly Prom			



### **Revision Guides**

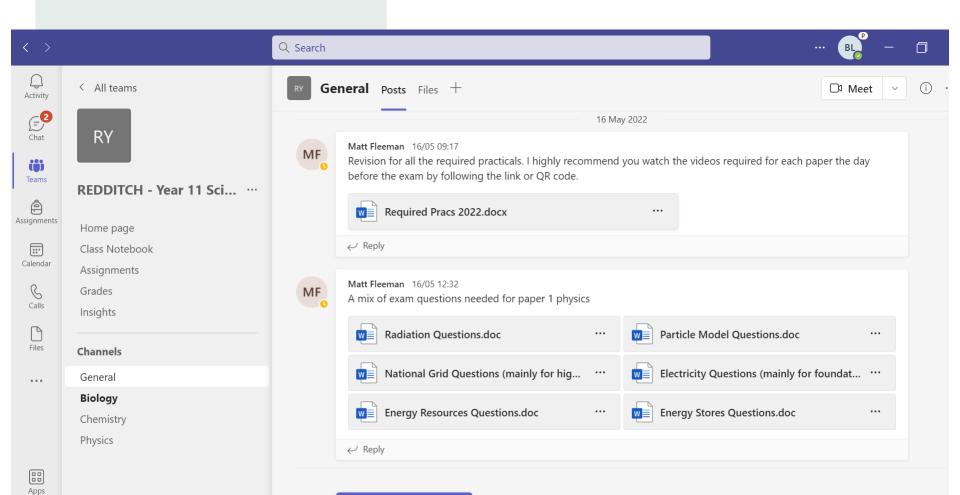


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## Homework





# A message from the SENDCo

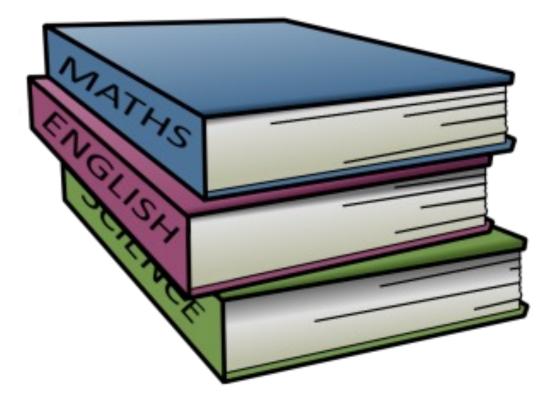
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# Exam Access Arrangements: what are they & who gets them?



Delving deeper into our core subjects



# English at TGAR



Mrs L Hyde – Associate College Leader Sixth Form, Learning & Teaching Mrs C Nottingham – Lead English Ms M Evans – Teacher of English and Media Studies Mr L Fielding – Teacher of English Ms M Kaur – Teacher of English

# GCSE Examinations

# Study of two GCSE qualifications, English Language (8700) and English Literature (8702)

Exam Board: AQA

https://www.aqa.org.uk/subjects/english

### English Language

- Students will sit two exams and each paper will be equally weighted at 50%
- English Language Paper 1 'Explorations in Creative Reading and Writing' (50%)
- English Language Paper 2 'Writers' Viewpoints and Perspectives (50%)
- Students will also complete a Spoken Language Endorsement This endorsement is reported as a separate grade (Pass, Merit, Distinction or Not Classified) and will not contribute to the result of the GCSE English Language qualification.

# **English Language Paper 1**

### 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)

#### SECTION A: READING – Assessment Objectives

AO1	Identify and interpret explicit and implicit information and ideas.
	Select and synthesise evidence from different texts.
AO2	<ul> <li>Explain, comment on and analyse how writers use language and structure to achieve effects and influence readers, using relevant subject terminology to support their views.</li> </ul>
AO3	Compare writers' ideas and perspectives, as well as how these are conveyed, across two or more texts.
AO4	Evaluate texts critically and support this with appropriate textual references.

#### SECTION B: WRITING – Assessment Objectives

AO5	<ul> <li>Communicate clearly, effectively and imaginatively, selecting and adapting tone, style and register for different forms, purposes and audiences.</li> <li>Organise information and ideas, using structural and grammatical features to support coherence and cohesion of texts.</li> </ul>
AO6	<ul> <li>Candidates must use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation. (This requirement must constitute 20% of the marks for each specification as a whole).</li> </ul>



# **English Language Paper 2**

### 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

### <u>Questions</u>

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)

#### SECTION A: READING – Assessment Objectives

AO1	<ul> <li>Identify and interpret explicit and implicit information and ideas.</li> <li>Select and synthesise evidence from different texts.</li> </ul>
AO2	<ul> <li>Explain, comment on and analyse how writers use language and structure to achieve effects and influence readers, using relevant subject terminology to support their views.</li> </ul>
AO3	<ul> <li>Compare writers' ideas and perspectives, as well as how these are conveyed, across two or more texts.</li> </ul>
AO4	Evaluate texts critically and support this with appropriate textual references.

#### SECTION B: WRITING – Assessment Objectives

AO5	<ul> <li>Communicate clearly, effectively and imaginatively, selecting and adapting tone, style and register for different forms, purposes and audiences.</li> <li>Organise information and ideas, using structural and grammatical features to support coherence and cohesion of texts.</li> </ul>
A06	<ul> <li>Candidates must use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation. (This requirement must constitute 20% of the marks for each specification as a whole).</li> </ul>



# GCSE Examinations

### **English Literature**



- Students will sit two exams and study a range of texts to prepare them for this qualification
- English Literature Paper 1 requires study of a Shakespeare play and a 19<sup>th</sup> Century Novel
- This paper is weighted at 40% of the overall grade and is 1 hour 45 minutes
- English Literature Paper 2 requires study of a modern prose or drama text, an anthology of poems, and unseen poetry
- This paper is weighted at 60% of the overall grade and is 2 hours 15 minutes





# **English Literature Paper 1**

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

### What's assessed

Assessment objectives (AOs)

Shakespeare plays The 19th-century novel

How it's assessed written exam: 1 hour 45 minutes 64 marks

40% of GCSE

A01	Read, understand and respond to texts.				
	Students should be able to:				
	maintain a critical style and develop an informed personal response				
	<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.				
AO3	Show understanding of the relationships between texts and the contexts in which they were written.				
AO4	Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation.				

## Year 11 (2023 examinations):

- Romeo and Juliet by William Shakespeare
- A Christmas Carol by Charles Dickens

# Year 10 (2024 examinations):

- Macbeth by William Shakespeare
- A Christmas Carol <u>OR</u> The Strange Case of Dr Jekyll and Mr Hyde by Robert Louis Stevenson

### **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



# **English Literature Paper 2**

### 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

### Modern Drama: An Inspector Calls by J.B. Priestley Poetry Anthology: Power and Conflict

# Power and Conflict Poetry

#### Assessment objectives (AOs)

AO1	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>				
	use textual references, including quotations, to support and illustrate interpretations.				
AO2	Analyse the language, form and structure used by a writer to create meaning and effects, using relevant subject terminology where appropriate.				
AO3	Show understanding of the relationships between texts and the contexts in which they were written.				
AO4	Use a range of vocabulary and sentence structures for clarity, purpose and effect, with accurate spelling and punctuation.				

### <u>Questions</u>

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

### An Inspector Calls Grade 5 Response

Page ( A
As projects Calle to JK Proston and The Pier and
Fall of Like varies by Tri Committee
As happened calls by I.E. Prestley and The Rise and Fall of Little voice by Tim Cartwright
In both "An Inspector Calls", by J.B. Prestley, and "The Rise and Fall of Little Voice" by Jim Cartwright,
the rise and the of the voice, by Unit Californit,
there is a conflict in viewpoint between the older
generation and the younger generation as a result of age
difference.
la 'Aslando Cill' Possition no ha
h An Inspector Calls, Priestley uses the two
younger characters, Sheita and Eric, to act as the
responsible and more consciencious generation.
In response to Birling trying to forget that anything
had ever happened that night, Shella replies "(passionately)
You're pretonding eventhing's just as it was before.
You're pretending eventhing's just as it was before. The adverte passionately contrasts the way that
7 Sheila was presented initially in the book - She
was a tiruid girl who followed orders of her
mother and pather. The events of the right have
clearly charged her perception on how people shalls be treated, which was one of Prestley's intentions.
be Meabed, which was one of Priestley's intertions.
Preistley demonstrates, through his use of the aduel
"passionately", that young people don't have to be
passionably, that young people don't have to be passie and accept the political that their parents have indectrinated them with the share that young
have indoctrinated they with. He shows that young
people can be the more enthusiastic about standing up
For what they believe in and that they have the
courage to appose their parents political views. The
verb "pretending" also hints at the upper class family
façado that the Birling's have adopted throughout the
play. Sheith and Gric, the two younger characters,
are the cirst to recognise the rediculous act that

their particly have put on; they appear to be wise to the audience, when can tell prove the beginning that the ritegrity and warmen of the fartity was just a paqade. The Priestlay uses Sheila as a maithpeire, by Using the word protending to expose the upper class as pake. Futhermore, Stulia says to Mr Birling that he is "pretending weighings" just as before. The word "before" rejects could refer to the beginning of the navel, before the inspector came. However, it could also may that shells is actually referring to Mr and Mrs Birlings" political viewpoint. Here, she could be one questioning their capitals lifeology and adopting a socialistic ideology. By action acting on the negativity from the night, Shella is becoming more pro-active on supporting equality for people of all classes, one of Priestley's messages. Mr Birling havener chooses to genore the messages that the Inspector has guen and continues to go back to the pagade that they were previously using in. This shaves Mr Birling, the older generation and also capitalist interviews as insymptime unchanging an immodule.

In The Rise and Fall of Little Voice, the younger generation (Little Voice), also acts as a the more responsible, sensitie and morale generation. The reputition of your nights, your nights, yours nights, your nights of neglect also, like shelp, could suggest the two Little Voice is preservate about whit she is saying that she cannot get her words to come out. This is backed up by the words in brackets "(words, rush out)", shawing that rather than speaking could, Little Voice is sharing uncontrollarly as a stream of conscionspess. It can't also my that the character is repeating the words "our nights" to add emphasis to the amount of night that her worker was away for. The pronon "for" also suggests that the nights were exclusive to her The candidate **directly addresses the question**, immediately citing 'a conflict in viewpoint between the older generation and the younger generation as a result of age difference'. **Wellselected quotations are used** throughout the response to support the points made.

In response to the first bullet point the response shows **understanding of the differing political views** of the older and younger generations. The candidate shows **good contextual understanding** of the taught text, recognising the significance of the upper class family façade that the Birlings have adopted throughout the play'. An **informed personal response** is evident in some of the assertions made.

# Section B: Question Paper and Mark Scheme

### The poems you have studied are:

Ozymandias London Extract from The Prelude My Last Duchess The Charge of the Light Brigade Exposure Storm on the Island Bayonet Charge Remains Poppies War Photographer Tissue The Emigree Checking Out Me History Kamikaze



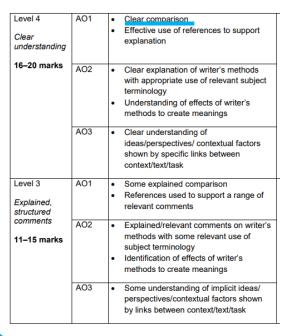
Compare how poets present ideas about power in 'Ozymandias' and in one	
other poem from 'Power and conflict'.	

I met a traveller from an antique land Who said: Two vast and trunkless legs of stone Stand in the desert. Near them on the sand, Half sunk, a shattered visage lies, whose frown

- 5 And wrinkled lip, and sneer of cold command Tell that its sculptor well those passions read Which yet survive, stamped on these lifeless things, The hand that mocked them and the heart that fed; And on the pedestal these words appear:
- 10 'My name is Ozymandias, king of kings: Look on my works, ye Mighty, and despair!' Nothing beside remains. Round the decay Of that colossal wreck, boundless and bare, The lone and level sands stretch far away.

Percy Bysshe Shelley

[30 marks]



### Year 10 Overview

Year 10	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
KS4 GCSE	Macbeth Shakespeare	Macbeth & Language Paper 1 Shakespeare	A Christmas Carol & Language Paper 2 Set 1: Jekyll & Hyde * 19 <sup>th</sup> Century Novel	A Christmas Carol & Language Paper 2 Set 1: Jekyll & Hyde * 19 <sup>m</sup> Century Novel	Power & Conflict Poetry Poetry Anthology	Unseen Poetry
Fundamentals	<ol> <li>To understand the plot and organisational structure of the play, evaluating key moments</li> <li>To explore how characters, themes and wider ideas are presented to convey meaning</li> <li>To make connections between the text and relevant contexts</li> <li>To evaluate Shakespearean conventions and understand the tragic form</li> <li>To engage with writer's methods, specifically dramatic techniques, and analyse the effect of language, structure and word choice</li> <li>Knowledge of exam requirements / assessment objectives and develop skill of essay writing (Lit Paper 1)</li> </ol>	<ol> <li>To understand the requirements of the exam (Lang Paper 1)</li> <li>To identify language and analyse the effect of a range of methods</li> <li>To identify structural features and analyse the effect of a range of methods</li> <li>To evaluate the effectiveness of writer's methods, engaging critically with unseen texts (20<sup>th</sup> century)</li> <li>Practise writing in timed conditions</li> </ol>	<ol> <li>To understand plot and key moments of the novella, engaging with organisational structure</li> <li>To explore how characters, themes and wider ideas are presented to convey meaning</li> <li>To make connections between the text and relevant contexts</li> <li>To engage with writer's methods and analyse the effect of language, structure and word choice</li> <li>To engage with wider reading materials and develop knowledge of literary texts from the 19<sup>th</sup> Century</li> <li>Knowledge of exam requirements / assessment objectives and develop skill of essay writing (Lit Paper 1)</li> </ol>	<ol> <li>To understand the requirements of the exam (Lang Paper 2)</li> <li>Read, summarise, analyse and compare non-fiction texts</li> <li>Understand different perspectives and engage with evidence</li> <li>Consider the form and style of texts and compare how meaning is conveyed</li> <li>Explore societal themes of poverty, class, gender, religion and morality, discovery, family etc.</li> </ol>	<ol> <li>To understand how each poem in the anthology thematically links to power and conflict</li> <li>To have a clear understanding of the relationship between a text and its context</li> <li>To engage with key quotations, identifying poetic devices</li> <li>To explore the use and effect of a range of devices</li> <li>To comparatively analyse poems from the anthology in relation to assessment objectives</li> </ol>	<ol> <li>Read a selection of unseen poems for understanding, establishing main ideas and themes</li> <li>Engage with evidence to establish writer's attitudes and intentions</li> <li>Identify poetic devices and explain effect of form, structure, language and word choice</li> <li>Write analytically and practise responding to exam- style questions, in timed conditions</li> <li>Compare ideas conveyed in two poems through close analysis of methods</li> </ol>

Homework will be set once a week and will relate to the fundamental learning and teaching of that week. Students will revisit and retain key information through these activities and be expected to complete exam-style responses at home (30 minutes).

# Websites and Revision Guides

### Websites:

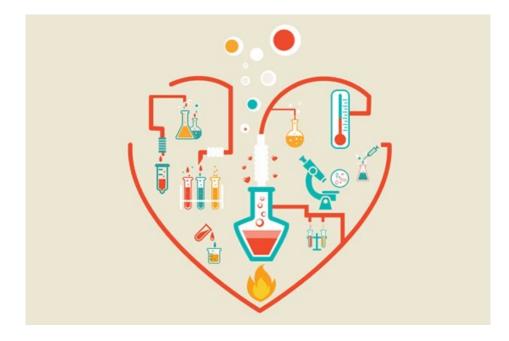
- AQA
- BBC Bitesize
- Oak Academy
- Revision World
- SparkNotes
- York Notes
- YouTube

### **Revision Guides:**

CGP 'The Text Guide' CGP 'GCSE AQA English Literature / Language Complete Revision and Practice' Snap Revision



# GCSE Combined Science-Trilogy



Mr A. Grubb (Head of Science) Mr B Lumley Mr B Wilkes Miss L Lane Miss J Bates Mr M Fleeman Mr M Winkworth (Technician)

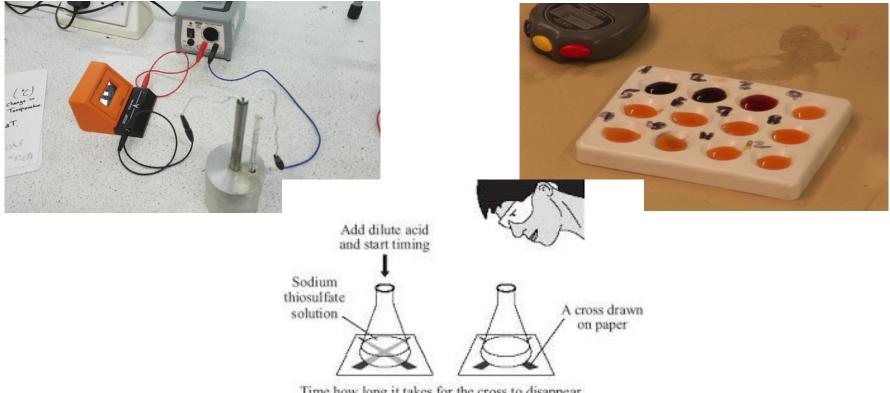
# Subject Content:

Biology	Chemistry	Physics
1. Cell biology	8. Atomic structure and the periodic table	18. Energy
•	9. Bonding, structure, and the properties of	19. Electricity
2. Organisation	matter	19. LIECTICITY
3. Infection and response	10. Quantitative chemistry	20. Particle model of
5. Intection and response	11. Chemical changes	matter
4. Bioenergetics	12. Energy changes	21 Atomic structure
		21. Atomic structure
5. Homeostasis and	13. The rate and extent of chemical change	22. Forces
response	14. Organic chemistry	
6. Inheritance, variation	15. Chemical analysis	23. Waves
and evolution	16. Chemistry of the atmosphere	24. Magnetism and
	to. Chemistry of the atmosphere	electromagnetism
7. Ecology	17. Using resources	electromagnetism
7. LCOIOGY		

## Assessments

Biology	Chemistry	Physics
Paper 1: Biology topics 1–4	Paper 1: Chemistry topics 8-12	Paper 1:Physics topics 18–21
Paper 2: Biology topics 5–7	Paper 2: Chemistry topics 13-17	Paper 2: Physics topics 22–24
Multiple choice, structured, closed short answer, and open response	Multiple choice, structured, closed short answer, and open response	Multiple choice, structured, closed short answer, and open response

## **Required Practicals**



Time how long it takes for the cross to disappear

Timeline Biology Chemist		Chemistry	Physics	
Year 9	Term 3	• Cells	<ul> <li>Atomic Structure Part 1</li> <li>The Periodic Table Part 1</li> <li>Structure and bonding Part 1</li> </ul>	Energy Crisis
10	Term 1	<ul> <li>Organisation, Breathing and Digestion</li> <li>The Cardiovascular System</li> </ul>	<ul> <li>Atomic structure Part 2</li> <li>The Periodic Table part 2</li> <li>Structure and Bonding Part 2</li> <li>Energy Changes</li> </ul>	<ul><li>Energy Crisis</li><li>Molecules and Matter</li></ul>
Year	Term 2	<ul> <li>Non –Communicable Diseases</li> <li>Health and Disease</li> </ul>	<ul><li> Quantitative Chemistry 1</li><li> Chemical Reactions</li></ul>	<ul> <li>Radioactivity</li> <li>Energy and problem Solving</li> <li>Electrical Circuits</li> </ul>
	Term 3	<ul><li>Plants</li><li>Humans and The Environment</li></ul>	<ul><li>Electrolysis</li><li>Rates</li></ul>	<ul><li>Electricity In The Home</li><li>Laws Of Forces and Motion</li></ul>
Year 11	Term 1	<ul> <li>The Nervous System</li> <li>Hormones</li> <li>Reproduction</li> <li>DNA and Genetics</li> </ul>	<ul> <li>Quantitative Chemistry/acids</li> <li>2</li> <li>Reversible Reactions</li> </ul>	<ul> <li>Motion Graphs and Acceleration</li> <li>Waves</li> <li>Electromagnetic Spectrum</li> </ul>
	Term 2	<ul> <li>Organisms and their environment</li> <li>Evolution and Extinction</li> <li>Genetic Technology</li> </ul>	<ul> <li>Organic Chemistry</li> <li>The Atmosphere</li> <li>Using Resources</li> </ul>	Electromagnetism
7	Term 3	Revision and Exams	Revision and Exams	Revision and Exams



# 6 Mark Questions

- 6 mark questions may require explanations, examples to illustrate a specified concept, judgements of advantages and disadvantages, a description of a process or an experimental method.
- Marks are awarded for scientific content and the quality of the writing.
- This means key ideas must be clear and the explanation must make sense, the points in a logical order.
- Most students lose marks because their answers lack sufficient detail eg scientific vocabulary or because their answer is rambling or confused.
- Markschemes will usually include graded answers (low=1-2 marks, 3-4, 5-6) and examiners will decide which description fits best, then award the higher or lower score depending on the quality of writing.
- Aim for between 4 and 6 scientific points or steps in a process; if opposing viewpoints are needed include points for *and* against, or examples of plants *and* animals etc.

# Question



In the back of the chemical store the technician finds four bottles of white solids. Their labels have faded but the list of stock chemicals suggests they may contain the following substances:

- aluminium chloride
- magnesium chloride
- potassium carbonate
- potassium sulfate
- copper sulfate

Describe how you would analyse the solids to determine their identity. You can use standard laboratory reagents and you may also use flame tests. There is more than one way to carry out this analysis but you should try to minimise the number of different tests being used.

Give the results of any tests you would carry out.

### Answer- Written

Your written answer should be in coherent and logical sentences.

If you need to, cross off bits of the exam question once you have covered them so you know what you have left to cover.

This is an example of a 6 mark answer.

Firely, add water to all the samples If one is a blue solution then this is copper sulfate All the others give colowless solutions Then add barium chloride solution to the Samples. This is the test for the sulfate ion so I a white solid is pomed then the sample would be potassiun sulfate. All other substances would Grow no change. Then you can test for the carbonate ion using acid. Bubbles of O2 would be seen if the sample is potassium carbonate. The others would stay the same. This leaves us with 2 substances to distinguish between aluminium chloride and magnesium chloride. These give the same plane test result so you should use dilute sodium sodium hydroxide Both give white solids but if a sample has aluminium in it then the solid would redissolve usen an excess is added So f the white solid renains then the sample is magnesium chloride

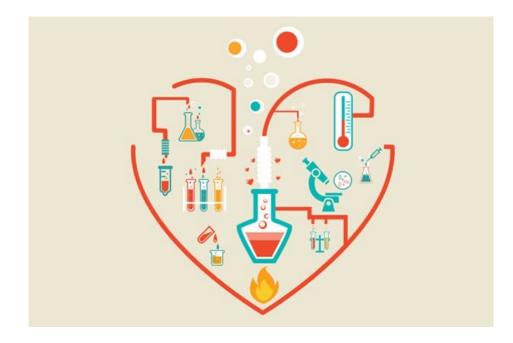
# Homework Plan

Year 9	Year 10	Year 11
20 recall questions per fortnight	20 recall questions per fortnight- minimum	20 recall questions per fortnight
	Additional exam questions from each Science- teacher choice	Additional exam questions from each Science- teacher choice
		Past papers to complete over half terms

# Useful Websites

- BBC Bitesize (AQA- Combined Science): <u>https://www.bbc.co.uk/bitesize/examspecs/z8r997h</u>
- Seneca Learning: <u>Seneca Learn 2x Faster (senecalearning.com)</u>
- Fuseschool: <a href="https://www.fuseschool.org/">https://www.fuseschool.org/</a>
- Khan Academy: <a href="https://www.khanacademy.org/">https://www.khanacademy.org/</a>
- Crash course: <a href="https://thecrashcourse.com/">https://thecrashcourse.com/</a>
- Science Shorts: <u>https://www.youtube.com/user/ScienceShorts/videos</u>
- Save my exams: <u>https://www.savemyexams.co.uk/</u>
- Primrose Kitten: <u>https://www.youtube.com/channel/UCBgvmal8AR4QIK2e0EfJwaA</u>

# GCSE Maths



Mr Hampton (Head of Maths)

10X-Ma1 - Mr Feiven

10X-Ma2 - Miss Pace

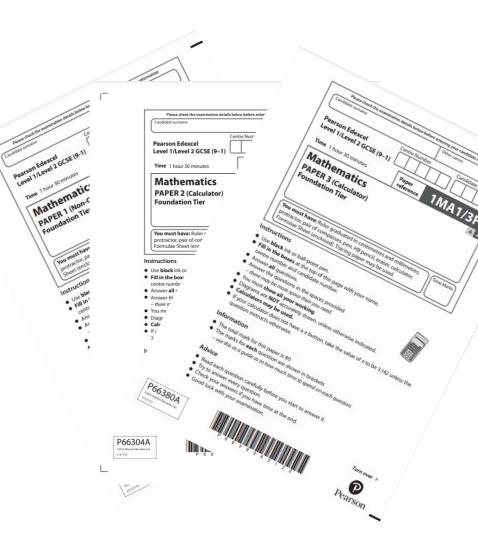
10Y-Ma1 - Mr Feiven

10Y-Ma2 - Miss Pace

**Mr** Davies

# GCSE Maths

- Maths is split into higher (grades 9-3) and foundation (grades 5-1)
- In each tier there are three
   90minute papers, each worth 80
   marks
- Paper 1 on both tiers is noncalculator, papers 2 and 3 are calculator



The assessments will cover the following content headings:

- 1. Number
- 2. Algebra
- 3. Ratio, proportion and rates of change
- 4. Geometry and measures
- 5. Probability
- 6. Statistics

The table below illustrates the topic areas covered in this qualification and the topic area weightings for the assessment of the Foundation

ig	l ±l ± - £ ±l		
Tier		Topic area	Weighting
		Number	22 - 28%
		Algebra	17 - 23%
Found	dation	Ratio, Proportion and Rates of change	22 - 28%
		Geometry and Measures	12 - 18%
		Statistics & Probability	12 - 18%
		Number	12 - 18%
		Algebra	27 - 33%
Highe	er	Ratio, Proportion and Rates of change	17 - 23%
		Geometry and Measures	17 - 23%
		Statistics & Probability	12 - 18%

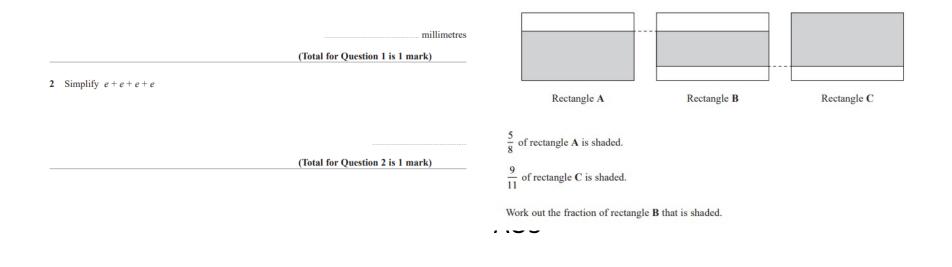
		% Foundation	% Higher
A01	Use and apply standard techniques		
	Students should be able to:		
	<ul> <li>accurately recall facts, terminology and definitions</li> </ul>	50	40
	<ul> <li>use and interpret notation correctly</li> </ul>		
	<ul> <li>accurately carry out routine procedures or set tasks requiring multi-step solutions.</li> </ul>		
A02	Reason, interpret and communicate mathematically		
	Students should be able to:		
	<ul> <li>make deductions, inferences and draw conclusions from mathematical information</li> </ul>		
	<ul> <li>construct chains of reasoning to achieve a given result</li> </ul>		
	<ul> <li>interpret and communicate information accurately</li> </ul>	25	30
	<ul> <li>present arguments and proofs</li> </ul>		12.010
	<ul> <li>assess the validity of an argument and critically evaluate a given way of presenting information.</li> </ul>		
	Where problems require students to 'use and apply standard techniques' or to independently 'solve problems' a proportion of those marks should be attributed to the corresponding Assessment Objective.		

		% Foundation	% Higher
I	Solve problems within mathematics and in other contexts		
	Students should be able to:		
	<ul> <li>translate problems in mathematical or non- mathematical contexts into a process or a series of mathematical processes</li> </ul>		
	<ul> <li>make and use connections between different parts of mathematics</li> </ul>		
	<ul> <li>interpret results in the context of the given problem</li> </ul>	25	30
	<ul> <li>evaluate methods used and results obtained</li> </ul>		
	<ul> <li>evaluate solutions to identify how they may have been affected by assumptions made.</li> </ul>		
	Where problems require students to 'use and apply standard techniques' or to 'reason, interpret and communicate mathematically' a proportion of those marks should be attributed to the corresponding Assessment Objective.		
<b>!</b>	Total	100%	100%

### AO1 1 Change 40 centimetres into millimetres.

### AO2

20 The diagram shows three identical rectangles A, B and C.

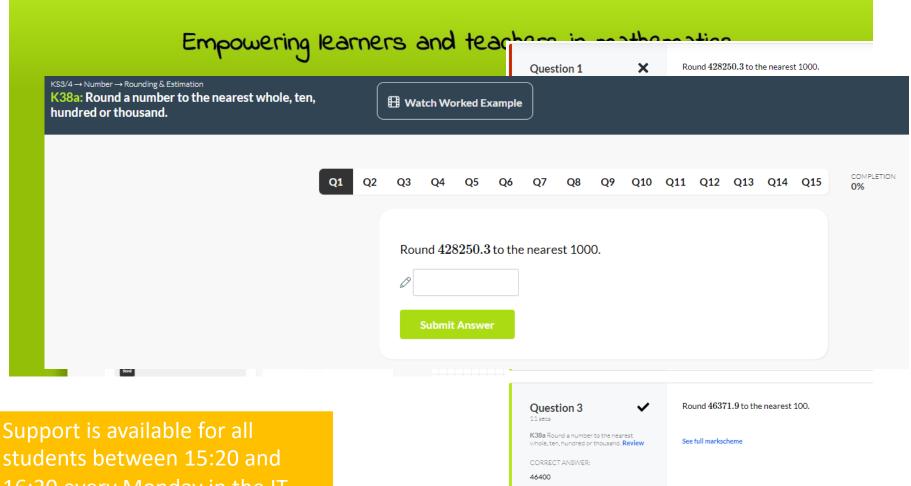


11 At the end of October, Fiona's electricity meter reads 88738 kWh. At the end of November, her electricity meter reads 89198 kWh.

Each kWh of electricity Fiona uses costs 16p

Work out how much Fiona had to pay for the electricity she used in November.

## Homework



STUDENT ANSWER:

16:20 every Monday in the IT rooms

## Year 10 – Half Term 1



Maths Learning Journey Year 10 Higher: Half Term 1 – Ratio & Proportion

Ratio is used for comparing two quantities of the same kind. The ratio formula for two numbers, *a* and *b* is expressed as *a*:*b*. The concept of ratio and proportion is based on fractions, which was taught in Year 9. Ratio and proportion are the key foundations for various other concepts in Mathematics, as they are an excellent way to scale quantities up or down. They have their applications in solving many day-to-day problems, like when we compare heights, weights, <u>distance</u> or time or while adding ingredients in cooking, and so on.

#### Fundamentals for Checkpoint 1:

- The notation of ratio
- Find Equivalent Ratios / Simplify Ratios
- Write a relationship as a ratio
- Find equivalent unit ratios (1:n or n:1)
- Find missing parts in ratios
- Share in a ratio
- · Work with ratios, when given the difference between parts
- Work with ratios combining pairs of ratios
- · Work with ratios on a line

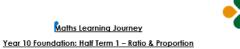
#### Fundamentals for Checkpoint 2:

- Use a unitary method
- Use proportion to answer a "recipes question"
- Find the best value
- · Calculations involving exchange rates
- Work with conversion graphs
- Solve ratio problems in context
- Solve algebraic direct proportion question
- Solve algebraic indirect proportion question
- Use similarity to find missing lengths

#### Fundamentals for Checkpoint 3:

- · Multiply& divide surds / Expanding brackets involving surds
- Simplify surds
- Add & subtract surds
- · Expand brackets involving surds & simplify the result
- · Completing the square involving surds
- · Rationalise the denominators of fractions involving surds





Ratio is used for comparing two quantities of the same kind. The ratio formula for two numbers, a and b is expressed as a:b. The concept of ratio and proportion is based on fractions, which was taught in Year 9. Ratio and proportion are the key foundations for various other concepts in Mathematics, as they are an excellent way to scale quantities up or down. They have their applications in solving many day-to-day problems, like when we compare heights, weights, <u>distonce</u> or time or while adding ingredients in cooking, and so on.

#### Fundamentals for Checkpoint 1:

- The notation of ratio
- Find Equivalent Ratios / Simplify Ratios
- Write a relationship as a ratio
- Find equivalent unit ratios (<u>1:n</u> or n:1)
- Find missing parts in ratios
- Share in a ratio
- · Work with Ratios, when given the difference between parts

#### Fundamentals for Checkpoint 2:

- Use a unitary method
- Use proportion to answer a "recipes question"
- Find the best value
- · Calculations involving exchange rates
- Work with conversion graphs
- Solve ratio problems in context
- Use similarity to find missing lengths



Tudor Grange Academy Trust

#### **EVERY SCHOOL DAY COUNTS** 100% 0 days off school Perfection Equates to 2 days off 99% Excellent school each year Equates to 5 days off 97% Good school each year Equates to 10 days 95% **Slight Concern** off school each year Equates to 20 days off 90% Concerned school each year Equates to 30 days off 85% Very Concerned school each year 5 days absence over the whole year 20 days absence over the 20+ days absence over the whole year whole year 97% - 100% 90% Under 90% Good chance of success Less chance of success. Detrimental to success and progress Harder to make progress and progress

### **EVERY MINUTE COUNTS**

#### LATENESS = LOST LEARNING

(Figures below are calculated over a school year)

5 minutes late each day	3 days lost!
10 minutes late each day	6.5 days lost!
15 minutes late each day	10 days lost!
20 minutes late each day	13 days lost!
30 minutes late each day	19 days lost!

BE AT THE CLASSROOM ON TIME AND READY TO LEARN!

# Aspire Attend Achieve