



ASPIRE • SUCCEED • LEAD

**BRADFORD GIRLS'
GRAMMAR SCHOOL**

Co-educational up to 11, Girls only 11-16

Year 11 Revision Skills evening – Science, Maths & English

A guide to supporting your
daughter's learning at home



General Revision tips



ASPIRE • SUCCEED • LEAD

**BRADFORD GIRLS'
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Revising science

GCSE preparation



Changes for Summer 2022

Major focus of the exam:	Required practical activities that will be assessed:	Topics NOT assessed:
4.1.2 Cell division 4.2.2 Animal tissues, <u>organs</u> and organ systems 4.4.1 Photosynthesis	Required practical activity 3: use qualitative reagents to test for a range of carbohydrates, <u>lipids</u> and proteins. (food tests) Required practical activity 4: investigate the effect of pH on the rate of reaction of amylase enzyme. Required practical activity 5: investigate the effect of light on the rate of photosynthesis of an aquatic plant such as pondweed.	4.1.1.5 Microscopy 4.1.3 Transport in cells 4.2.3 Plant tissues, <u>organs</u> and systems 4.3.1.2 Viral diseases 4.3.1.4 Fungal diseases 4.3.1.5 Protist diseases 4.3.1.6 Human defence systems 4.4.1.3 Uses of glucose from photosynthesis 4.4.2.2 Response to exercise

Changes for Summer 2022

All students will be given a full equation sheet for their physics exams.

Physics Equations Sheet GCSE Combined Science: Trilogy (8464) and GCSE Combined Science: Synergy (8465)

FOR USE IN JUNE 2022 ONLY

HT = Higher Tier only equations

kinetic energy = $0.5 \times \text{mass} \times (\text{speed})^2$	$E_k = \frac{1}{2} m v^2$
elastic potential energy = $0.5 \times \text{spring constant} \times (\text{extension})^2$	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = $\text{mass} \times \text{gravitational field strength} \times \text{height}$	$E_p = m g h$

Preparation-command words

State

Explain

Evaluate

Discuss

Describe

Compare

Suggest

Calculate

Preparation- plan your revision

- KNOW your exam dates.
- Create a timetable to ensure ALL necessary content can be reviewed prior to each paper.
- Be aware of your areas of strength and weakness-focus on the areas of weakness!
- Do NOT revise for long periods of time- chunk it up!
- Change how you revise- it will help you maintain focus.



Science revision- Dos and Don'ts

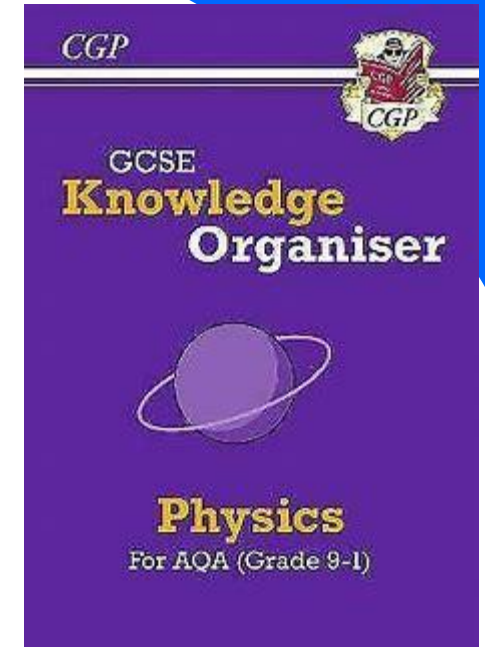
Do.....	Don't....
Begin revising sooner rather than later	Leave it until the last minute
Practise recall and application	Copy out notes from one place to another
Vary your revision styles/location/methods	Revise the same way, in the same place every time

DOS & DON'Ts



Resources

- All students have access to the specification and summer 2022 guidance.
- All students were given a knowledge organiser in December 2021.
- The school has subscribed to several online resources that all students have access to.
- All students will be given some practice exam questions (complete with mark schemes) for paper topics to support their revision over Easter.



Online resources for science

1. Kerboodle

The screenshot shows the AQA GCSE Sciences (9-1) interface on the Kerboodle platform. At the top, there is a dark navigation bar with a home icon, a notification bell with '196' alerts, and a help icon. Below this, the main header is orange and displays 'AQA GCSE Sciences (9-1)'. A secondary navigation bar contains icons and labels for 'Course', 'Lessons', 'Resources', 'Assessment', 'Markbook', 'Reports', and 'User Management'. The main content area features three resource cards, each with a book cover image, a title, and checkboxes for 'TEACHER' and 'STUDENT' access. The first card is for 'AQA GCSE Foundation: Combined Science Trilogy and Entry Level Certificate'. The second card is for 'AQA GCSE Biology for Combined Sciences: Trilogy'. The third card is for 'AQA GCSE Biology Student Book'. At the bottom of the content area, there are three dots and a 'See all' link, followed by a right-pointing arrow.

Course Lessons Resources Assessment Markbook Reports User Management

AQA GCSE Foundation: Combined Science Trilogy and Entry Level Certificate
TEACHER ✓
STUDENT ✓

AQA GCSE Biology for Combined Sciences: Trilogy
TEACHER ✓
STUDENT ✓

AQA GCSE Biology Student Book
TEACHER ✓
STUDENT ✓

See all

Online resources for science

2. Doodle

The screenshot displays the Doodle learn Science website interface. The top navigation bar is orange with the 'Doodle learn Science' logo and a dropdown menu. Below this, a secondary navigation bar contains links for 'Home', 'Resources', 'Markbook', and 'Students'. The left sidebar is purple and contains links for 'Doodle Resources', 'Support', 'My Resources', 'My Folders', 'Departmental Area', and 'Favourites'. The main content area has a breadcrumb trail: 'Doodle Resources > AQA GCSE Combined Science (Trilogy) 2016 > Biology > B2 Organisation'. Below the breadcrumb is a search bar with the placeholder text 'Search B2 Organisation'. To the right of the search bar are buttons for 'Assign' and a three-dot menu. Below the search bar are filters for 'All Resource Types' and 'Tablet-friendly only'. The 'Content results:' section displays a grid of resource cards. Each card includes an icon, a title, a level (KS4), a type (Lesson, Practical Quiz, Mini Quiz, Animation, Presentation, Revision), and a star icon. The resources shown are: 'Communicable diseases' (Lesson), 'Asexual reproduction and cloning' (Mini Quiz), 'AQA Blood and blood vessels' (Mini Quiz), 'Cardiovascular Disease' (Presentation), 'Controlling blood sugar' (Revision), 'AQA Food tests' (Practical Quiz), 'Benedict's Test for Reducing Sugars' (Animation), 'Cancer' (Presentation), 'Causes of disease' (Revision), 'Controlling blood sugar' (Mini Quiz), and 'Effect of changing pH on an enzyme-catalysed reaction'.

Doodle learn Science

Home Resources Markbook Students

Doodle Resources

Support

My Resources

My Folders

Departmental Area

Favourites

Doodle Resources > AQA GCSE Combined Science (Trilogy) 2016 > Biology > B2 Organisation

Search B2 Organisation

Assign

All Resource Types

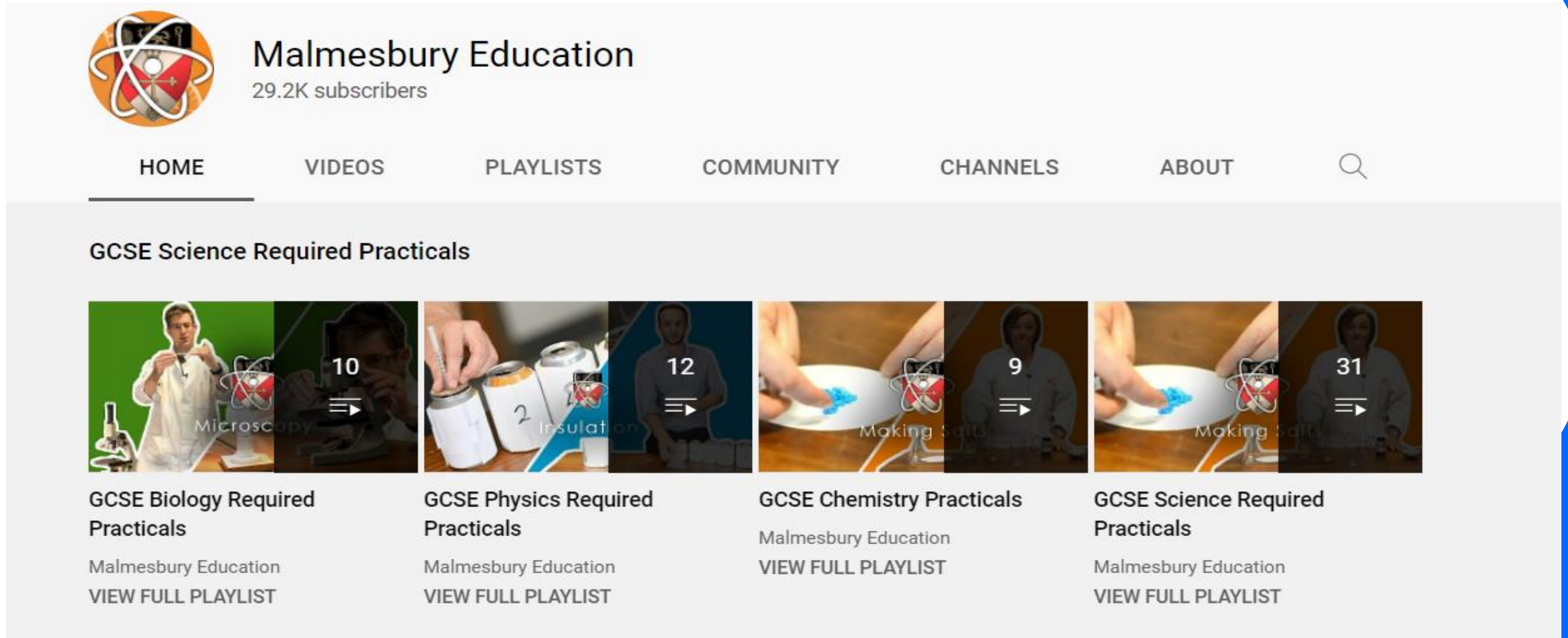
Tablet-friendly only

Content results:

- Communicable diseases
KS4
Lesson
- Asexual reproduction and cloning
KS4
Mini Quiz
- AQA Blood and blood vessels
KS4
Mini Quiz
- Cardiovascular Disease
KS4
Presentation
- Controlling blood sugar
KS4
Revision
- AQA Food tests
KS4
Practical Quiz
- Benedict's Test for Reducing Sugars
KS4
Animation
- Cancer
KS4
Presentation
- Causes of disease
KS4
Revision
- Controlling blood sugar
KS4
Mini Quiz
- Effect of changing pH on an enzyme-catalysed reaction

Online resources for science

3. Malmesbury science



The screenshot shows the YouTube channel page for Malmesbury Education, which has 29.2K subscribers. The navigation bar includes links for HOME, VIDEOS, PLAYLISTS, COMMUNITY, CHANNELS, and ABOUT. A search icon is also present. The main content area features a section titled "GCSE Science Required Practicals" with four video thumbnails. Each thumbnail includes a video preview, a play button, and a number indicating the video count in the playlist. Below each thumbnail is the playlist title, the channel name "Malmesbury Education", and a "VIEW FULL PLAYLIST" link.

Malmesbury Education
29.2K subscribers

HOME VIDEOS PLAYLISTS COMMUNITY CHANNELS ABOUT

GCSE Science Required Practicals

Thumbnail Description	Video Count	Playlist Title	Channel	Action
Microscopy	10	GCSE Biology Required Practicals	Malmesbury Education	VIEW FULL PLAYLIST
Insulation	12	GCSE Physics Required Practicals	Malmesbury Education	VIEW FULL PLAYLIST
Making Salt	9	GCSE Chemistry Practicals	Malmesbury Education	VIEW FULL PLAYLIST
Making Salt	31	GCSE Science Required Practicals	Malmesbury Education	VIEW FULL PLAYLIST

Online resources for science

4. myGCSEScience



The screenshot shows the myGCSEScience website interface. At the top, there is a navigation bar with a home icon, three science-themed icons (DNA, molecule, atom), a search bar with a magnifying glass icon and the text "SEARCH", and a "LOG OUT" button. Below the navigation bar is a dark grey section containing a "PROGRESS:" label, a progress bar, a "RESET" button, a "REVISION CHECKLIST" button, and a "REQUIRED PRACTICALS" button. Below this is a green section with the word "Biology" and a small "AQA" button.

Paper 1

1. Cell biology

<input checked="" type="checkbox"/>	Eukaryotic and prokaryotic cells →	🕒 10:27
<input type="checkbox"/>	Specialised Cells →	🕒 15:11
<input type="checkbox"/>	Orders of Magnitude & Standard Form →	🕒 16:34
<input type="checkbox"/>	Microscopes and Magnification →	🕒 18:48
<input type="checkbox"/>	Culturing Microorganisms →	🕒 09:40
<input type="checkbox"/>	Chromosomes and Mitosis →	🕒 08:50
<input type="checkbox"/>	Stem Cells →	🕒 15:01

Paper 2



5. Homeostasis and response

<input type="checkbox"/>	The Nervous System →	🕒 08:33
<input type="checkbox"/>	The Brain →	🕒 03:37
<input type="checkbox"/>	The Eye →	🕒 07:31
<input type="checkbox"/>	Controlling body temperature →	🕒 09:07
<input type="checkbox"/>	Adrenaline and Thyroxine →	🕒 06:32
<input type="checkbox"/>	Controlling Blood Glucose →	🕒 08:43
<input type="checkbox"/>	Maintaining water and nitrogen balance →	🕒 12:10

Online resources for science

5. Free science lessons

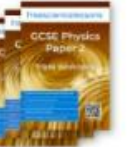





freesciencelessons

GCSE Videos ▾ A-Level Videos ▾ Workbooks ▾ FAQ My Account  

Videos


GCSE Chemistry, Physics & Biology

Printed workbooks available now




Only at **amazon**


Biology Paper 1



Chemistry Paper 1



Physics Paper 1



Online resources for science

6. Cognito



Biology

No Course Selected

Select Course



Chemistry

No Course Selected

Select Course



Physics

No Course Selected

Select Course



Maths

No Course Selected

Select Course



Revising Maths

GCSE preparation

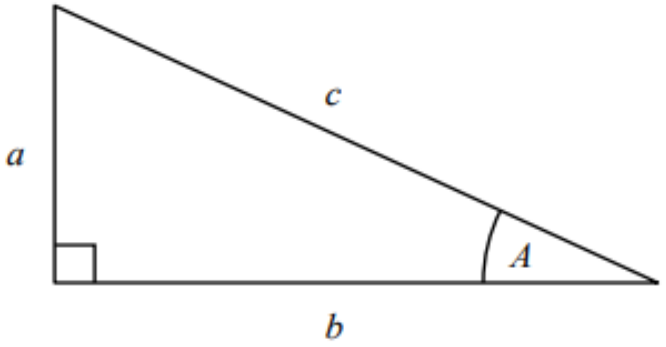


Changes for Summer 2022

FOUNDATION TIER - EDEXCEL			
	Paper 1	Paper 2	Paper 3
Number (True Ratio – some overlap of topic areas)			
Arithmetic	Money	Money	Four Operations
	Negative numbers	Negative numbers	Negative numbers
Fractions	Order fractions, decimals, percentages		Fraction of an amount
	Fraction of an amount		One amount as a fraction of another
	Fraction arithmetic	Fraction arithmetic	
		Order fractions	Equivalent fractions
Properties	Place value		
		Order Integers	
		Multiples	
			Factors
			Lowest Common Multiple
	Product of prime factors		
Powers and roots			Square root
Standard Form	Conversion		
	Calculation		
Approximation and Estimation		Rounding	Rounding
	Estimation		
Other		Error intervals	
		Mathematical symbols	Calculator use

Changes for Summer 2022

All students will be given a formula sheet for their maths exam.

<p>Pythagoras' Theorem and Trigonometry</p> 	<p>In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:</p> $a^2 + b^2 = c^2$ <p>In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:</p> $\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$
<p>Compound Interest</p> <p>Where P is the principal amount, r is the interest rate over a given period and n is number of times that the interest is compounded:</p> $\text{Total accrued} = P \left(1 + \frac{r}{100} \right)^n$	<p>Probability</p> <p>Where $P(A)$ is the probability of outcome A and $P(B)$ is the probability of outcome B:</p> $P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$

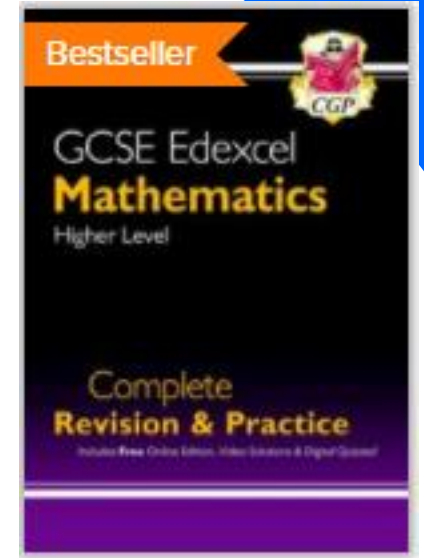
Preparation

- KNOW all your exam dates.
- Be aware of your areas of strength and weakness-focus on the areas of weakness!
- Do NOT revise for long periods of time- chunk it up into topic areas!
- Do NOT read to revise – with maths you must do maths in order to understand maths.



Resources

- All students have access to the specification and summer 2022 guidance.
- All students were given a complete maths revision and practice guide in December 2021.
- The school has subscribed to Hegarty maths that all students have access to.
- All students have already been given some practice exam questions for paper 1, 2 & 3 papers to support their revision over Easter.



Online resources for Maths

1. Hegarty Maths



Edexcel 2022 Advance Information List
Higher - All Papers

Number

	Topics	Clip Number	R	A	G
Arithmetic	Negative number	38 – 44			
Fractions	Fraction of an amount	77			
	Fraction arithmetic	65 – 70, 80			
	Recurring decimal to fraction	53, 54			
Properties	Product of prime factors	29, 30, 32, 35			
	Laws of indices	102 – 110			
	Negative and fractional indices	104 – 110			
Powers and roots	Simplification of surds	113 – 119			
Standard form	Conversion	122, 123, 124			
	Calculation	125, 126, 127			
Approximation and estimation	Error interval	774 – 777			
	Bounds	137, 138, 139			
Other	Use of a calculator	129			
	Product rule for counting	671, 672, 673			

Online resources for Maths

2. Maths genie – www.mathsgenie.co.uk

Maths Genie GCSE Revision GCSE Papers ▼ A Level Revision ▼ A Level Papers KS2 Revision Resources

GCSE Revision
Video tutorials, practice exam style questions and answers.

Edexcel GCSE Papers
Edexcel GCSE past papers with model solutions and video explanations.

AQA GCSE Papers
AQA GCSE past papers with model solutions.


OCR GCSE Papers
OCR GCSE past papers with model solutions.

A Level Revision
Video tutorials, practice questions and answers.

A Level Papers
Edexcel A Level past papers with model solutions.

Maths Genie will always be free.

Search Maths Genie



2022 Exam Advance Information
Advance Information (topics appearing in each paper in the summer 2022 exam series) for all exam boards.

Upcoming GCSE Exams

GCSE Paper 1: Friday 20 May 2022 (AM)

43d 15h 21m 20s

GCSE Paper 2: Tuesday 7 June 2022 (AM)

GCSE Paper 3: Monday 13 June 2022 (AM)

GCSE Statistics Paper 1: Tuesday 14 June 2022 (PM)

Online resources for Maths

3. Corbett maths – www.corbettmaths.com

Videos

Worksheets



Corbettmaths Revision Cards

Designed for the new 9-1 GCSE

GCSE Higher or
GCSE Foundation

GCSE 2022

Practice Papers



5-a-day Workbooks



Primary Study Cards



Online resources for Maths

4. Mathsbot – www.mathsbot.com

The screenshot displays the Mathsbot website interface. At the top, there is a navigation bar with icons for home, camera, clock, calculator, and a search bar. The main header reads "GCSE Resources" in large white text, followed by the subtitle "Practice Papers, Revision Grids, Grade Boundaries, Formulae, and more." Below this is a horizontal menu with links: "GCSE Resources", "Grids", "Manipulatives", "Printables", "Puzzles", "Question Generators", "Starters", "Tools", and "Ad-Free". The main content area is titled "GCSE Resources" and features a grid of resource cards. Each card has a thumbnail image and a title. The cards include: "Exam Countdown" (showing GCSE Paper 1, 2, and 3 dates), "Formulae" (showing various geometric formulas), "GCSE Exam Style Questions" (showing a diagram of a circle inside a semicircle), "GCSE Recall and Recap" (showing a fraction and decimal conversion), "GCSE Revision Grid" (showing a grid of revision topics), "GCSE Skills Test" (showing a list of math problems), "Grade Boundaries" (showing a table of grade boundaries), "Practice GCSE Papers" (showing a sample question), and "Retrieval Facts" (showing a grid of facts).

GCSE Resources

Practice Papers, Revision Grids, Grade Boundaries, Formulae, and more.

GCSE Resources Grids Manipulatives Printables Puzzles Question Generators Starters Tools Ad-Free

GCSE Resources

Exam Countdown

Formulae

GCSE Exam Style Questions

GCSE Recall and Recap

GCSE Revision Grid

GCSE Skills Test

Grade Boundaries

Practice GCSE Papers

Retrieval Facts

Online resources for Maths

5. Piximaths – www.piximaths.co.uk



Useful Links

[KS2 - KS4 Teaching Resources Index](#)

[KS5 Teaching Resources Index](#)

[PixiMaths USB Package](#)

New things!

[Mixed Attainment Maths](#)

[More exit tickets](#)

[GCSE Digital Flash Cards](#)

Masses of free maths teaching resources from Key Stage 2 to Key Stage 5, including complete lesson packages and revision materials for the GCSE and IGCSE.

THE REViSiON ZONE

Click here
to get
started

Important resource for Maths





Revising English

GCSE preparation



Changes for Summer 2022

- The focus of the June 2022 question papers will be as follows:

Paper 2: Writers' viewpoints and perspectives

Section A Reading	
Source A	Source B
21st century Autobiographical writing	19th century Essay

Section B Writing
Question 5
Article

Paper 1 (choose any two)

Paper 1N
19th-century novel – 1 item
30 marks (AO1, AO2, AO3)

Paper 1M
Modern prose/drama – 1 item
30 marks (AO1, AO2, AO3)

Paper 2 (compulsory)

Section A
Shakespeare – 1 item **Macbeth**
30 marks (AO1, AO2, AO3)
+ 4 marks (AO4)

Section B
Part 1: unseen poem essay
24 marks (AO1, AO2) + 4 marks (AO4)

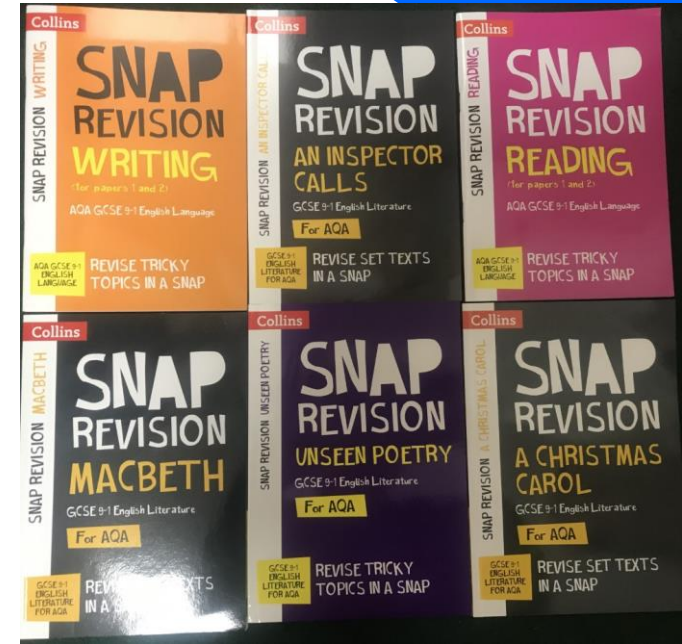
Part 2: unseen poetry comparison
8 marks (AO2)

A Christmas
Carol

An Inspector
Calls

Resources

- All students have been given Snap revision guides for each topic.
- All students have been emailed links to revision resources and practice questions which are available on Sharepoint. [English Revision folder](#)
- The school has subscribed to Seneca an online platform and students have been emailed login details.



Reflecting on strengths and weaknesses

Literature Exam Wrapper

Mark	Grade				Target grade		
Total time spent revising					How time was divided up E.g. 5 x 1hr 3 x ½ hr		
Strategies I used (Please circle) Now add a score /10 to show how much of this activity you did	Reading my exercise book and/or revisiting my	Mind-mapping the topic: basic handwritten/ SimpleMinds/ conceptualised / fishbone (delete as appropriate)	Making my own study notes	Talking my learning out loud to a friend/parent/podcast/vlog (delete as appropriate)	Sticking quotes up around my room/house	Using Quizlet to test myself	Using a knowledge organiser
	Making cue cards	Using additional resources Mr Bruff/ Oak Academy to help with topics I found difficult	Writing essays and marking them using the mark scheme/success criteria from my book/ my teacher (delete as appropriate)	Completing practice tasks in English Revision Folder	Getting someone to test me	Using Snap Revision books	Revisiting my past assessments and feedback so I know what to work on.
Skills I lost most marks on	Quote recall AO1 ref	Zooming in on a key word AO2	Using subject terminology AO2	Unpicking connotations AO2	Linking in context AO3	Discussing bigger ideas of the writer/text AO3	
What I will do before The next test to improve my grade	<div>1</div> <div>2</div> <div>3</div>						

Online resources for English



Language Picker

Teacher Hub

Specialist

Subjects

Key Stage 4, English, Revisiting: A Christmas Carol



Unit Quiz

Test your knowledge across this topic to understand the areas you may need to work on.

See All Unit Quizzes

Take Unit Quiz

Lesson 1



Redemption (Part 1)

27m video

Lesson 2



Redemption (Part 2)

25m video

Online resources for English

The screenshot shows the Bitesize website interface. At the top, there is a purple header with the 'Bitesize' logo on the left and a 'Change language' dropdown menu on the right. Below the header is a white navigation bar with links for 'Home', 'Learn', 'Support', 'Careers', 'My Bitesize', and 'All Bitesize'. The main content area has a purple background on the left side with the text 'GCSE AQA' and 'A Christmas Carol' in large, bold letters. Below the title, it says 'Part of English Literature'. A grey box contains the text '5 learner guides'.

Bitesize Change language ▾

[Home](#) [Learn](#) [Support](#) [Careers](#) [My Bitesize](#) [All Bitesize](#)

GCSE AQA

A Christmas Carol

Part of English Literature


5 learner guides

Plot summary - AQA >


 [Revise](#)


 [Video](#)


Online resources for English


 GB


Search







 9+









Dickens uses the character of Ebenezer Scrooge to criticise the divide between those who





Charles Dickens: 'A Christmas Carol' Analysis

Mr Bruff - 1 / 16








 **SCROOGE: CHARACTER ANALYSIS** 5:56


Ebenezer Scrooge: Character Analysis (animated & updated)

Mr Bruff

 **MR AND MRS CRATCHIT: CHARACTER ANALYSIS** 5:06


Mr & Mrs Cratchit: Character Analysis (animated and...

Mr Bruff

 **THE CRATCHIT CHILDREN: CHARACTER ANALYSIS** 5:09


The Cratchit Children: Character Analysis - 'A...

Mr Bruff

 **JACOB MARLEY: CHARACTER ANALYSIS** 4:36


Jacob Marley: Character Analysis - 'A Christmas Carol'...

Mr Bruff

 **FRED: CHARACTER ANALYSIS** 4:01

Fred: Character Analysis - 'A Christmas Carol' (Animated)

Mr Bruff

 **THE 3 GHOSTS: CHARACTER ANALYSIS** 4:56

The 3 Ghosts: Character Analysis - 'A Christmas Carol'...

Mr Bruff

Ignorance and Want in 'A

Online resources for English

The screenshot displays the SENECA platform interface for English Language: AQA GCSE - Standardised Assessments. The sidebar on the left contains a home icon, the SENECA logo, and a navigation menu. The main content area shows a quiz question about language techniques.

English Language: AQA GCSE - Standardised Assessments

- Standardised Assessments
- 1.1 Key Terms
- 1.1.1 Standardised Assessment - Key Terms
- 2 Standardised Assessments
- 2.1 Language Techniques
- 2.1.1 Standardised Assessment - Language Devices
- 2.1.2 Standardised Assessment

Standardised Assessments > Language Techniques > Standardised Assessment - Language Devices

You've joined over 5,000,000 students learning 2x faster.

New What technique is used in this phrase? 1/1

"I told you to clean the house a million times!"

- Onomatopoeia
- Oxymoron
- Pun
- Hyperbole** ✓

0/1

Revision Guide for Parents

https://bggs.sharepoint.com/:w:/r/sites/BGGS_Subjects_EN/_layouts/15/Doc.aspx?sourcedoc=%7B2B255681-9CFF-45E5-AA77-1ED7AA393BCC%7D&file=Yr%2011%20Parent%27s%20Revision%20booklet.docx&action=default&mobileredirect=true