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

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

General Revision tips

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, organs and organ systems 4.4.1 Photosynthesis	***Required practical activity 3***: use qualitative reagents to test for a range of carbohydrates, lipids 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, organs 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 × mass × (speed)^2	$E_k = \frac{1}{2} m v^2$
elastic potential energy = 0.5 × spring constant × (extension)^2	$E_e = \frac{1}{2} k e^2$
gravitational potential energy = mass × gravitational field strength × height	$E_p = m g h$

Preparation-command words

State	Describe
Explain	Compare
Evaluate	Suggest
Discuss	Calculate

Preparation- plan your revision

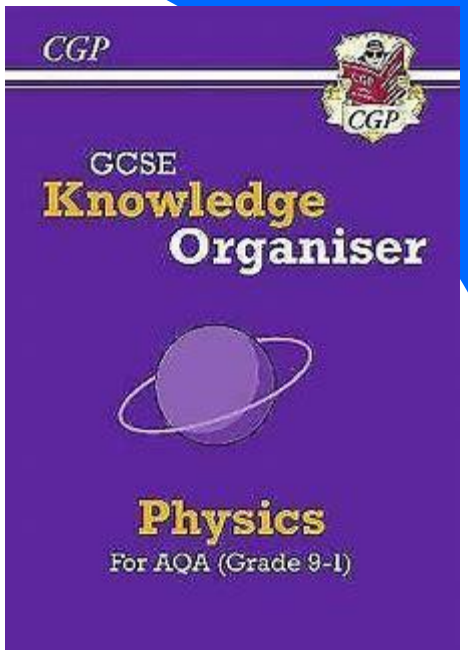
- KNOW your exam dates.
- Create a timetable to ensure ALL necessary content can be reviewed prior to each paper.
- Be aware of your areas of strength and weakness-focus on the areas of weakness!
- Do NOT revise for long periods of time- chunk it up!
- Change how you revise- it will help you maintain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

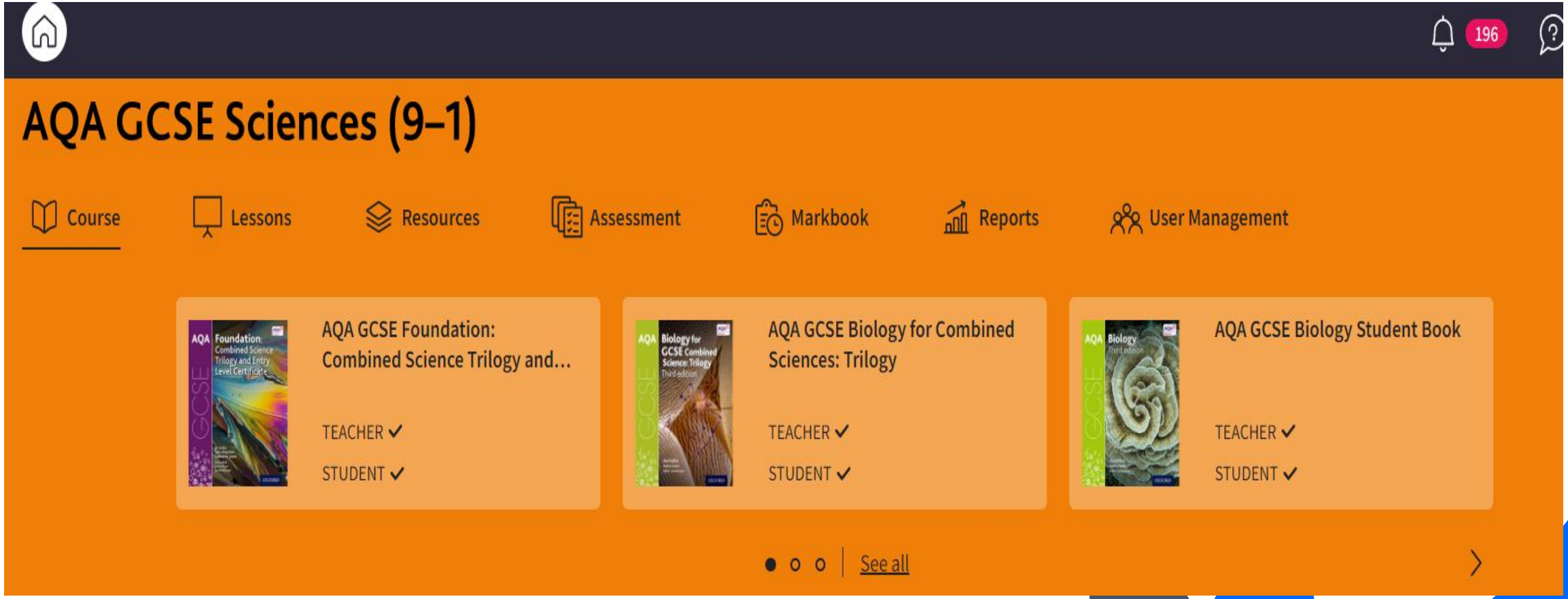
Resources

- 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 pape topics to support their revision over Easter.



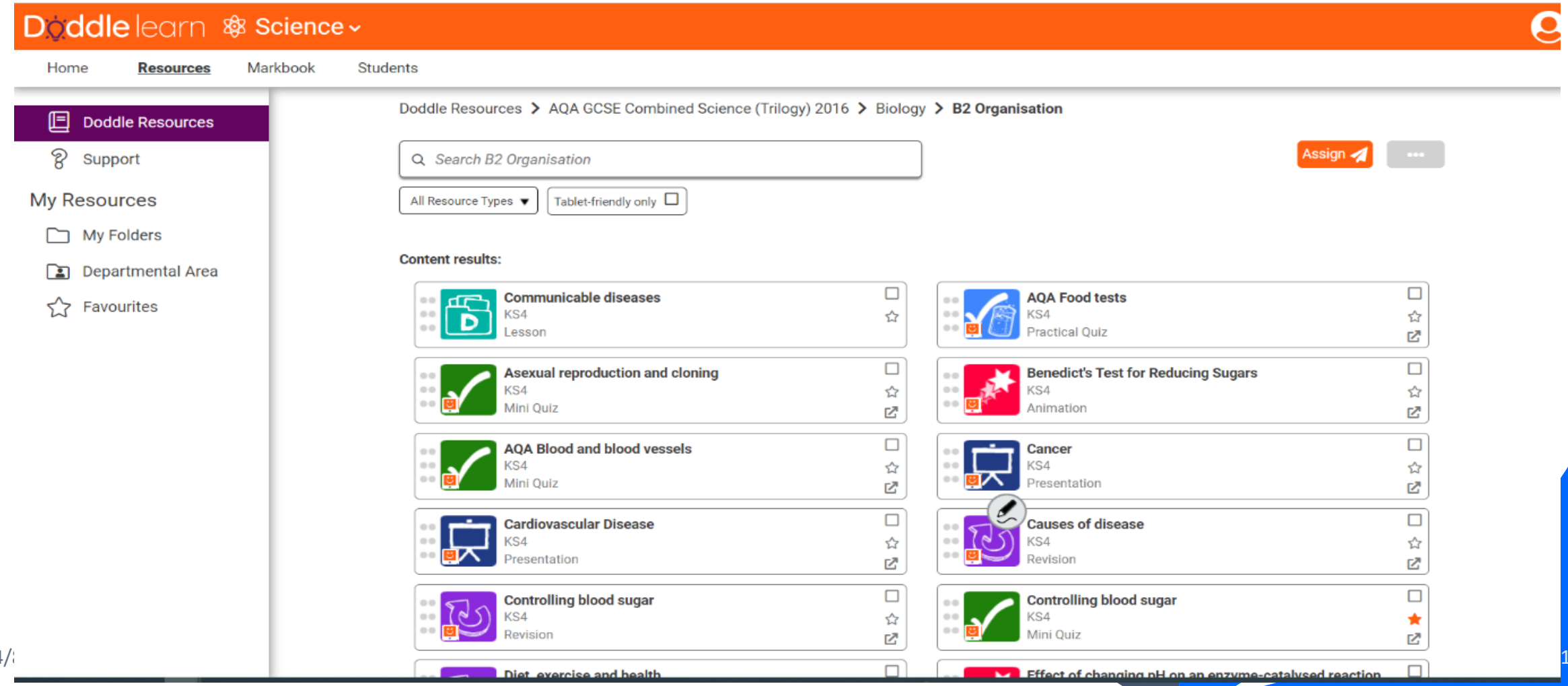
Online resources for science

1. Kerboodle



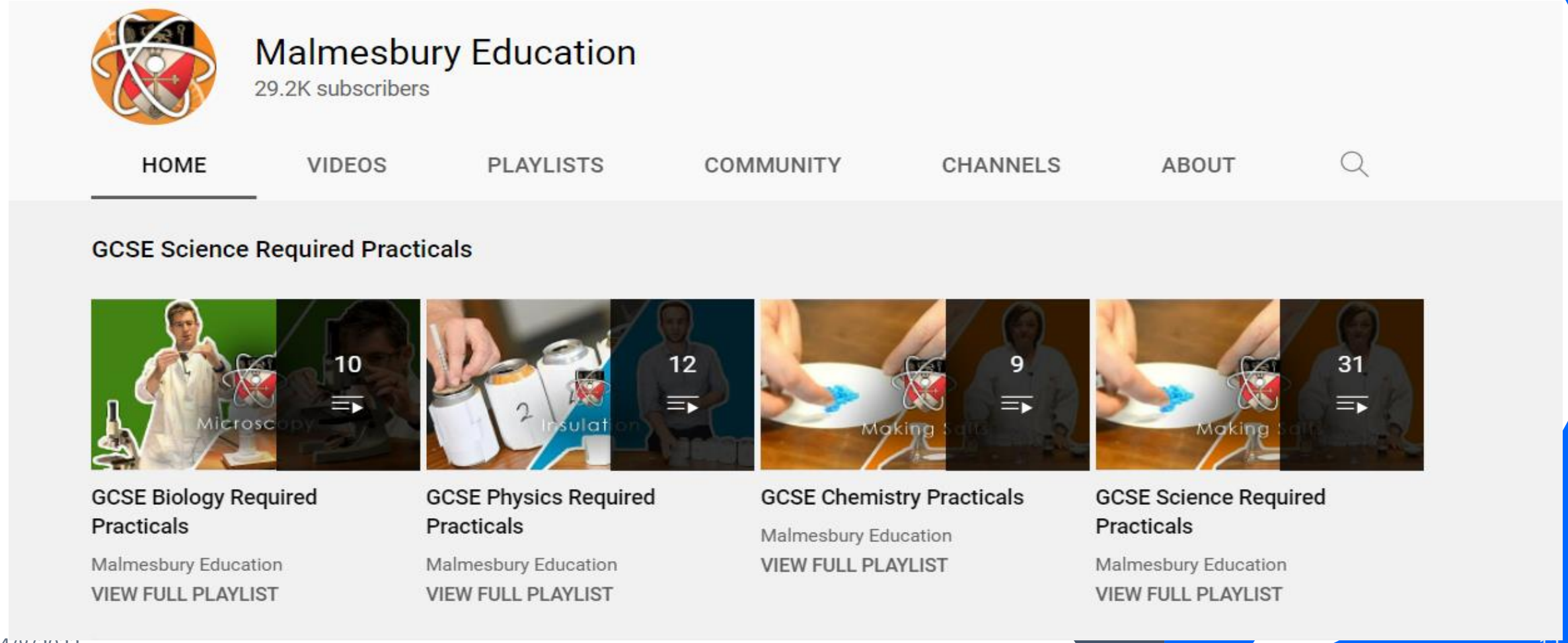
Online resources for science

2. Doddle



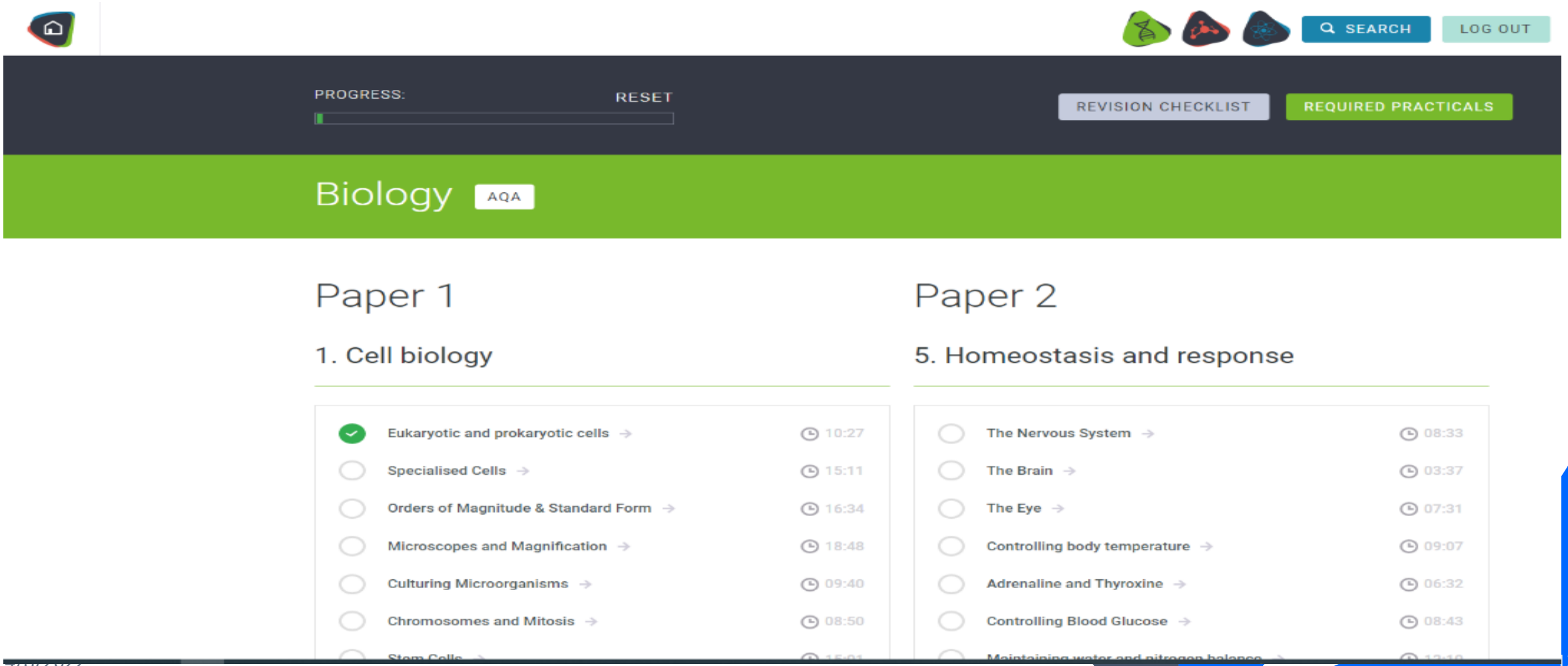
Online resources for science

3. Malmesbury science



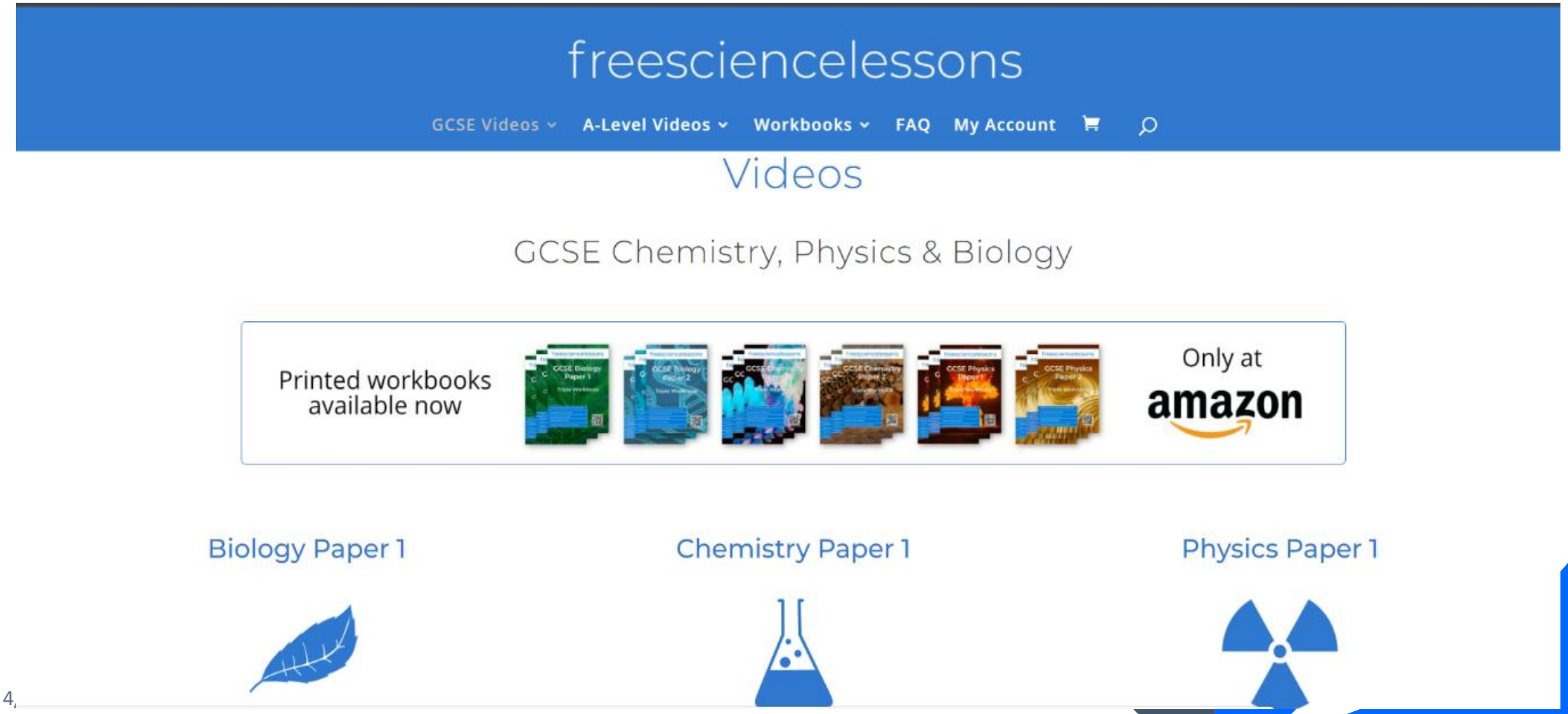
Online resources for science

4. myGCSEScience



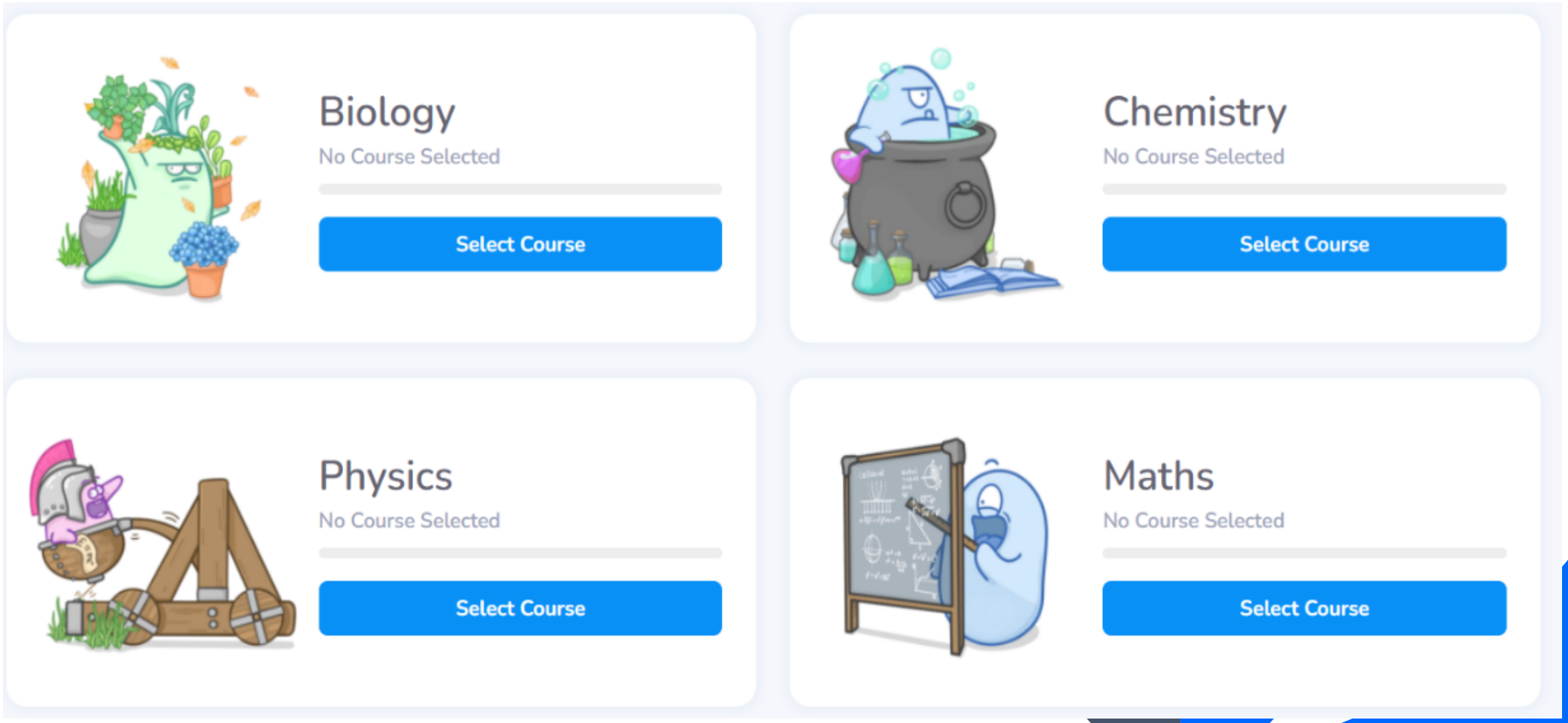
Online resources for science

5. Free science lessons



Online resources for science

6. Cognito



Revising Maths

GCSE preparation

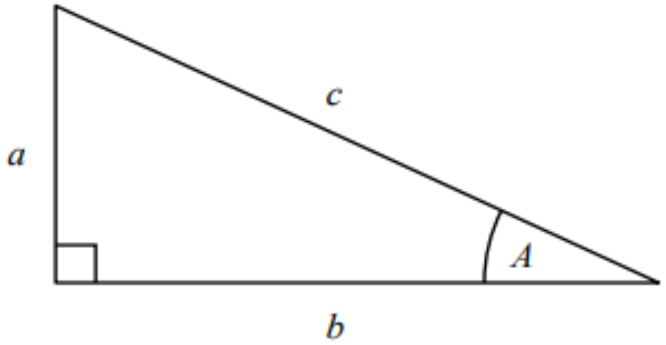
Changes for Summer 2022

FOUNDATION TIER - EDEXCEL			
	Paper 1	Paper 2	Paper 3
Number (*see 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		
		Error Intervals	
Other		Mathematical symbols	Calculator use
Algebra			

Changes for Summer 2022

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

Pythagoras' Theorem and Trigonometry



In any right-angled triangle where a, b and c are the length of the sides and c is the hypotenuse:

$$a^2 + b^2 = c^2$$

In any right-angled triangle ABC where a, b and c are the length of the sides and c is the hypotenuse:

$$\sin A = \frac{a}{c} \quad \cos A = \frac{b}{c} \quad \tan A = \frac{a}{b}$$

Compound Interest

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:

$$\text{Total accrued} = P\left(1 + \frac{r}{100}\right)^n$$

Probability

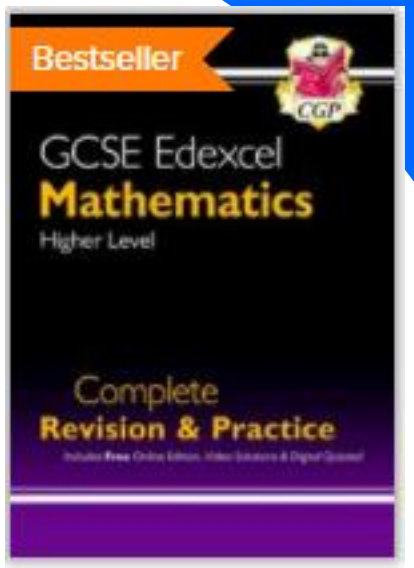
Where P (A) is the probability of outcome A and P (B) is the probability of outcome B:

$$\text{P}(A \text{ or } B) = \text{P}(A) + \text{P}(B) - \text{P}(A \text{ and } B)$$

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 practic- exam questions for paper 1, 2 & 3 papers to supp their revision over Easter.

Online resources for Maths

1. Hegarty Maths

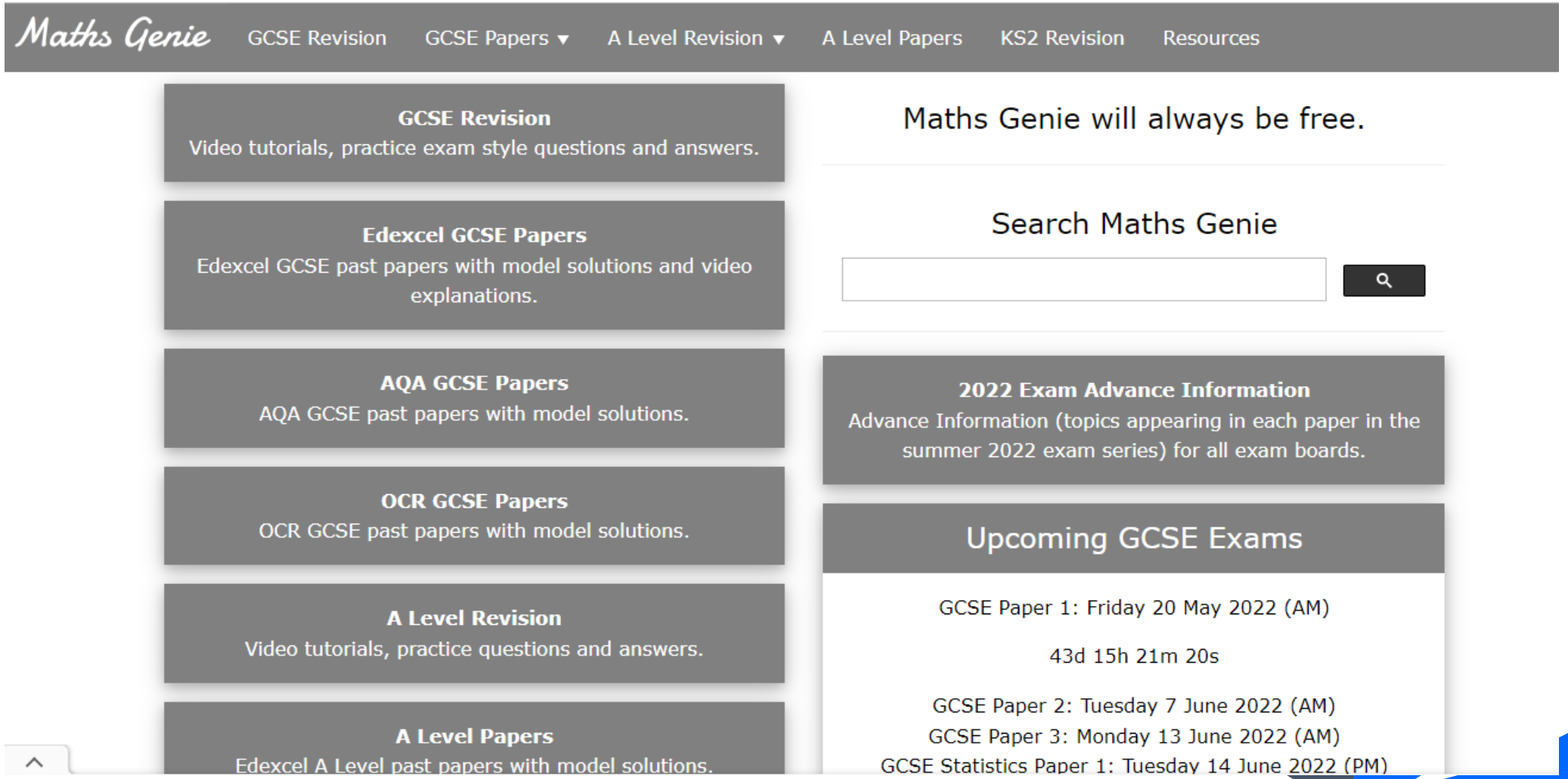
Edexcel 2022 Advance Information List
Higher - All Papers

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



Online resources for Maths

3. Corbett maths – www.corbettmaths.com

Videos

Worksheets

Corbettmaths Revision Cards

Designed for the new 9-1 GCSE

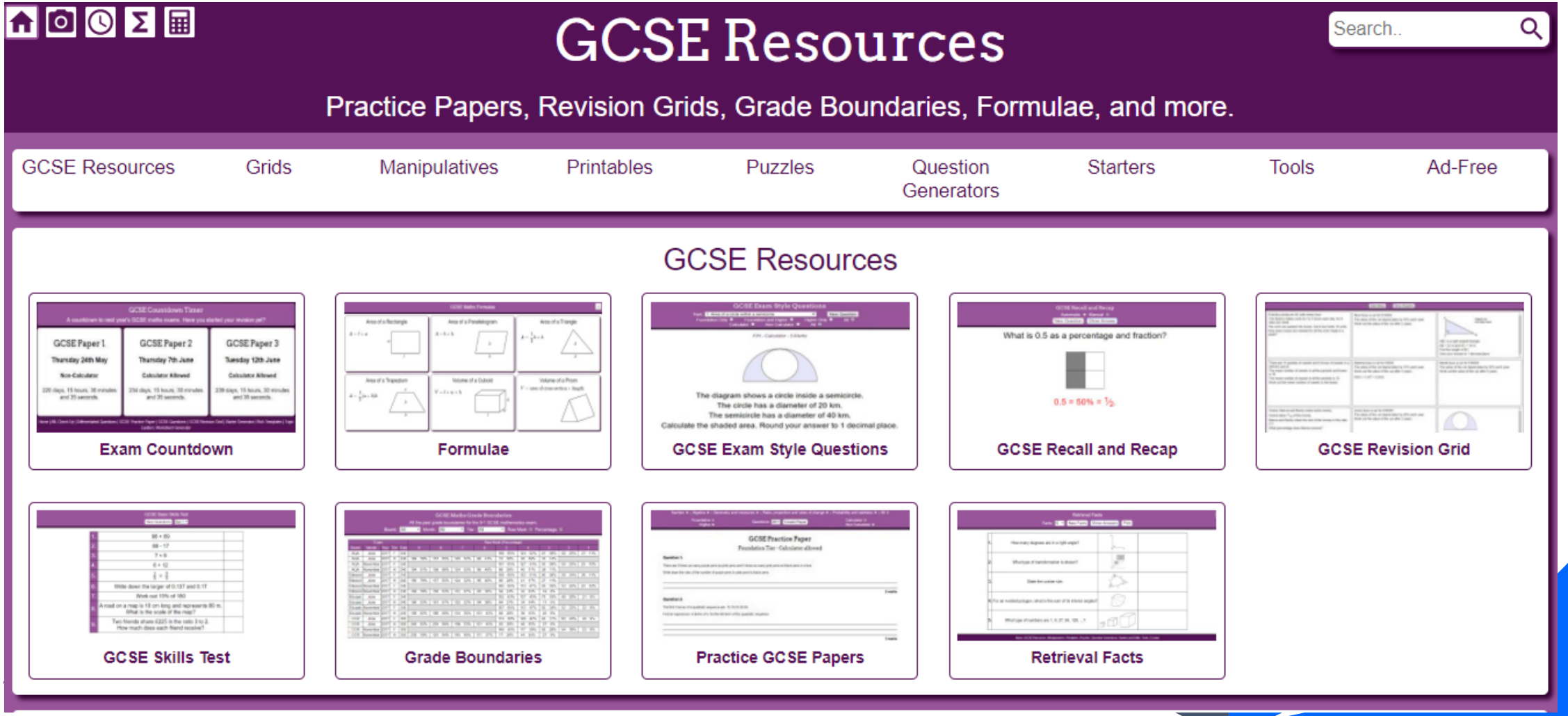
GCSE Higher or
GCSE Foundation

GCSE 2022

Practice Papers

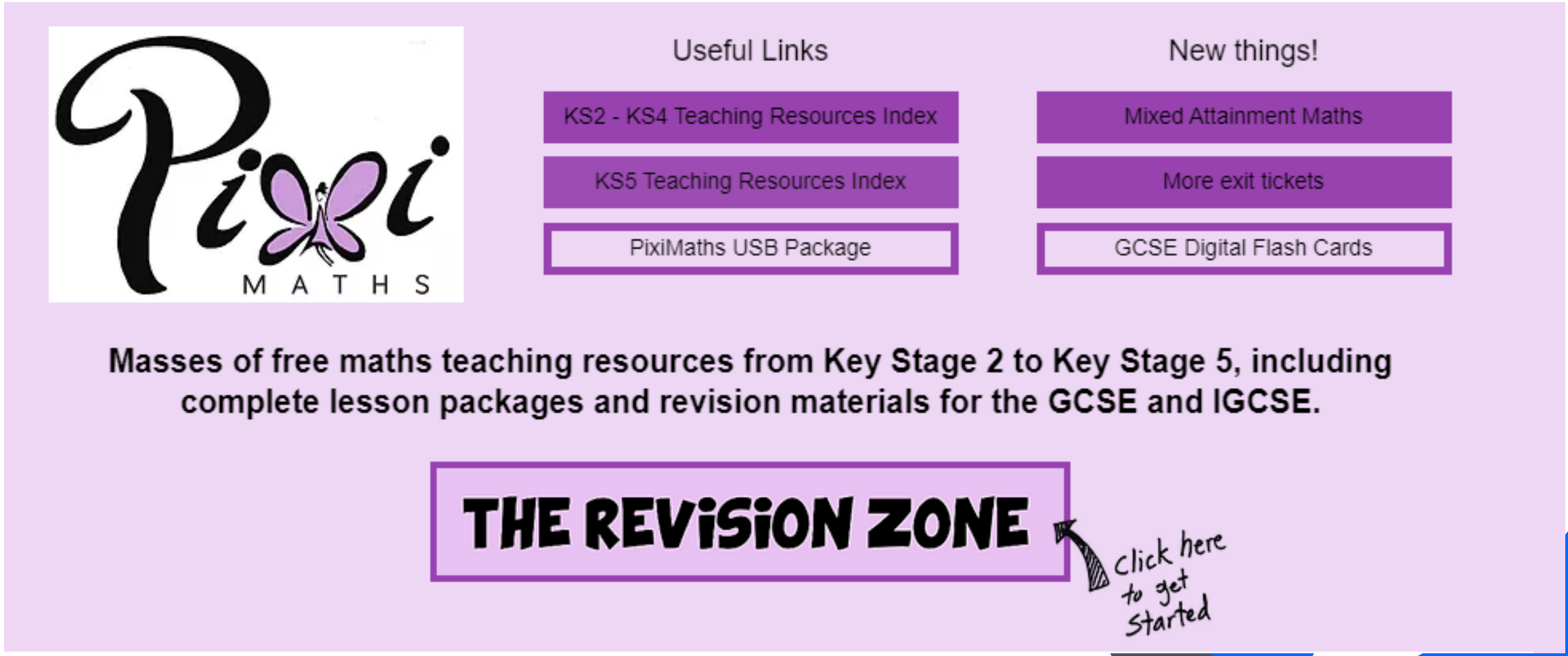
Online resources for Maths

4. Mathsbot – www.mathsbot.com



Online resources for Maths

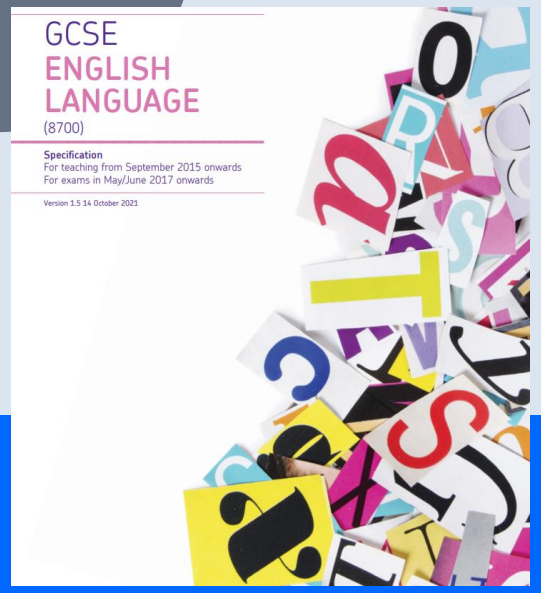
5. Piximaths – www.piximaths.co.uk



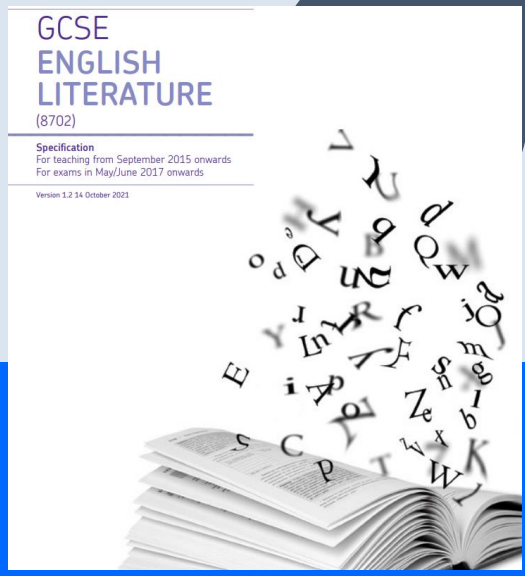
Important resource for Maths

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

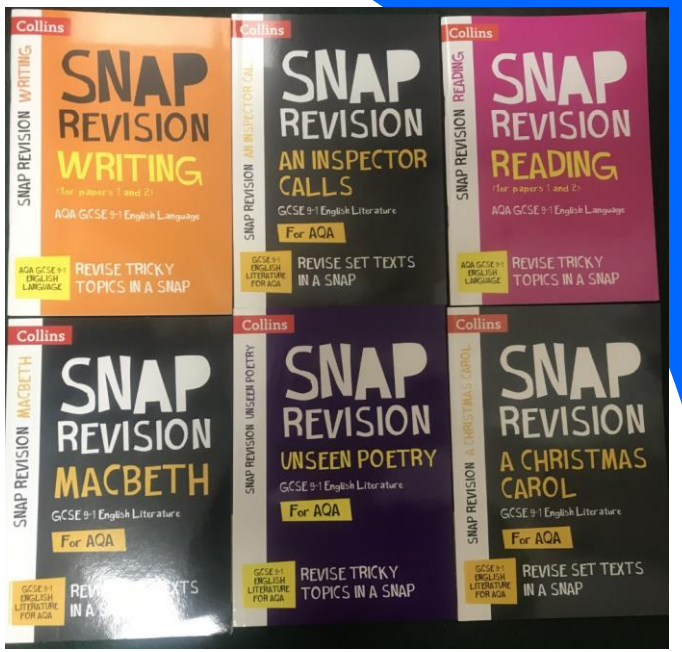
Section A Reading	
Source A	**Source B**
21st century Autobiographical writing	19th century Essay

Section B Writing
Question 5
Article

Paper 1 (choose any two)		**Paper 2 (compulsory)**
		Section A Shakespeare – 1 item 30 marks (AO1, AO2, AO3) + 4 marks (AO4) Macbeth
Paper 1N 19th-century novel – 1 item 30 marks (AO1, AO2, AO3)	A Christmas Carol	Section B Part 1: unseen poem essay 24 marks (AO1, AO2) + 4 marks (AO4) Part 2: unseen poetry comparison 8 marks (AO2)
Paper 1M Modern prose/drama – 1 item 30 marks (AO1, AO2, AO3)	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.

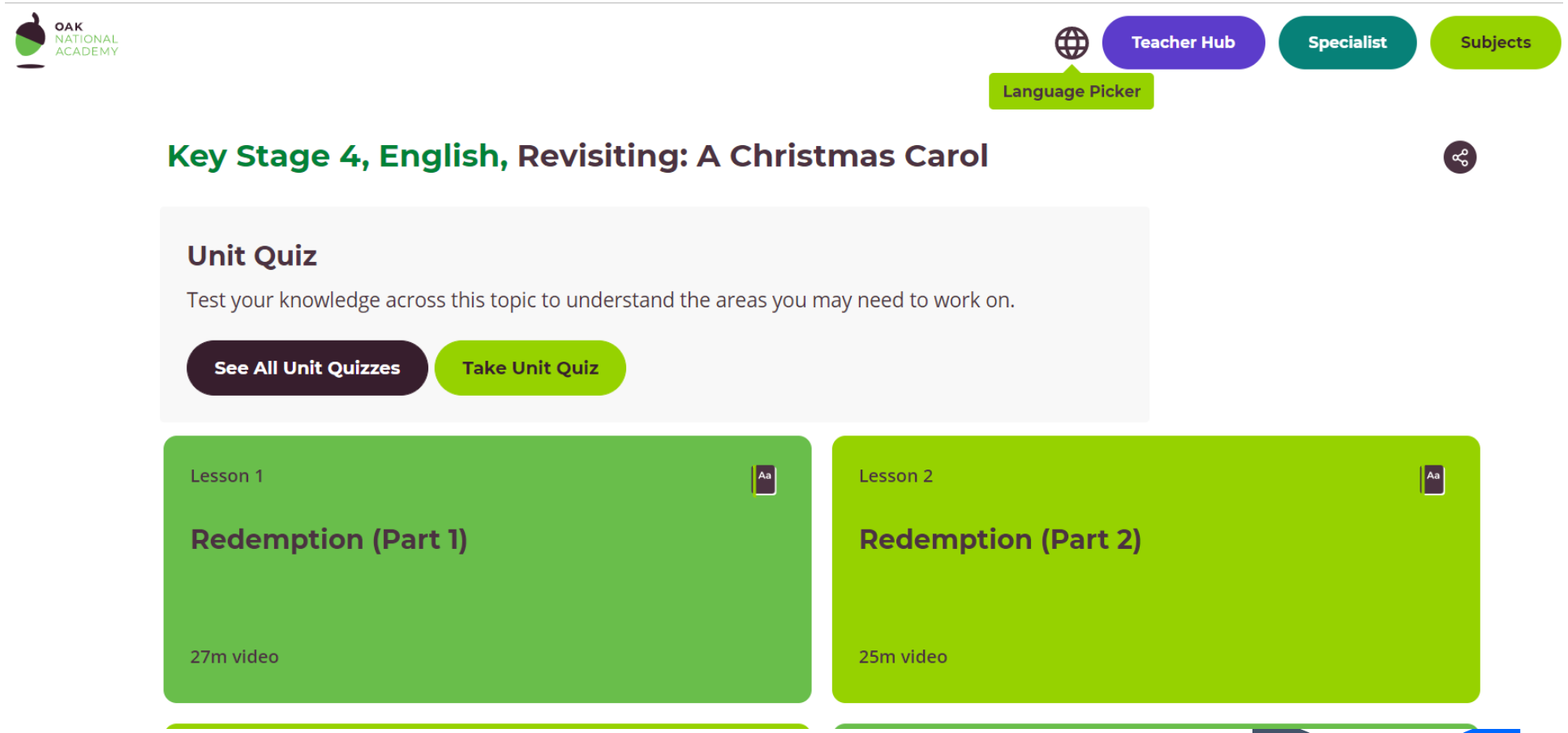


Reflecting on strengths and weaknesses

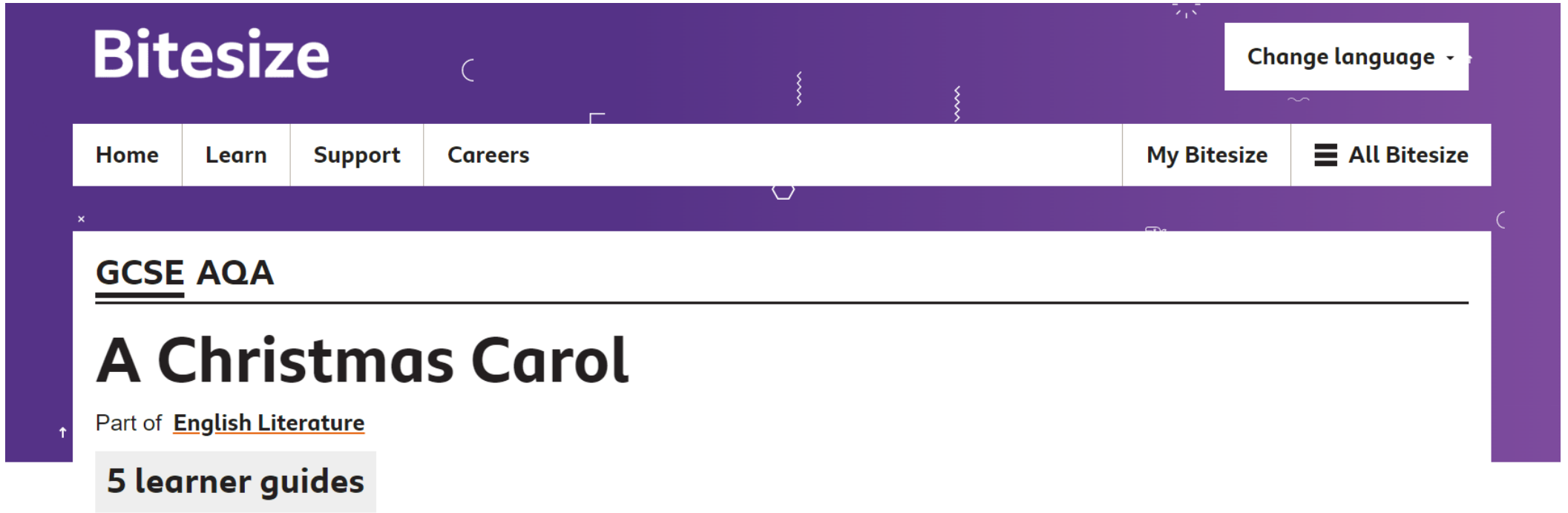
Literature Exam Wrapper

Mark		**Grade**			**Target grade**		
Total time spent revising					**How time was divided up** E.g.5 x 1hr 3x 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	1 2 3						

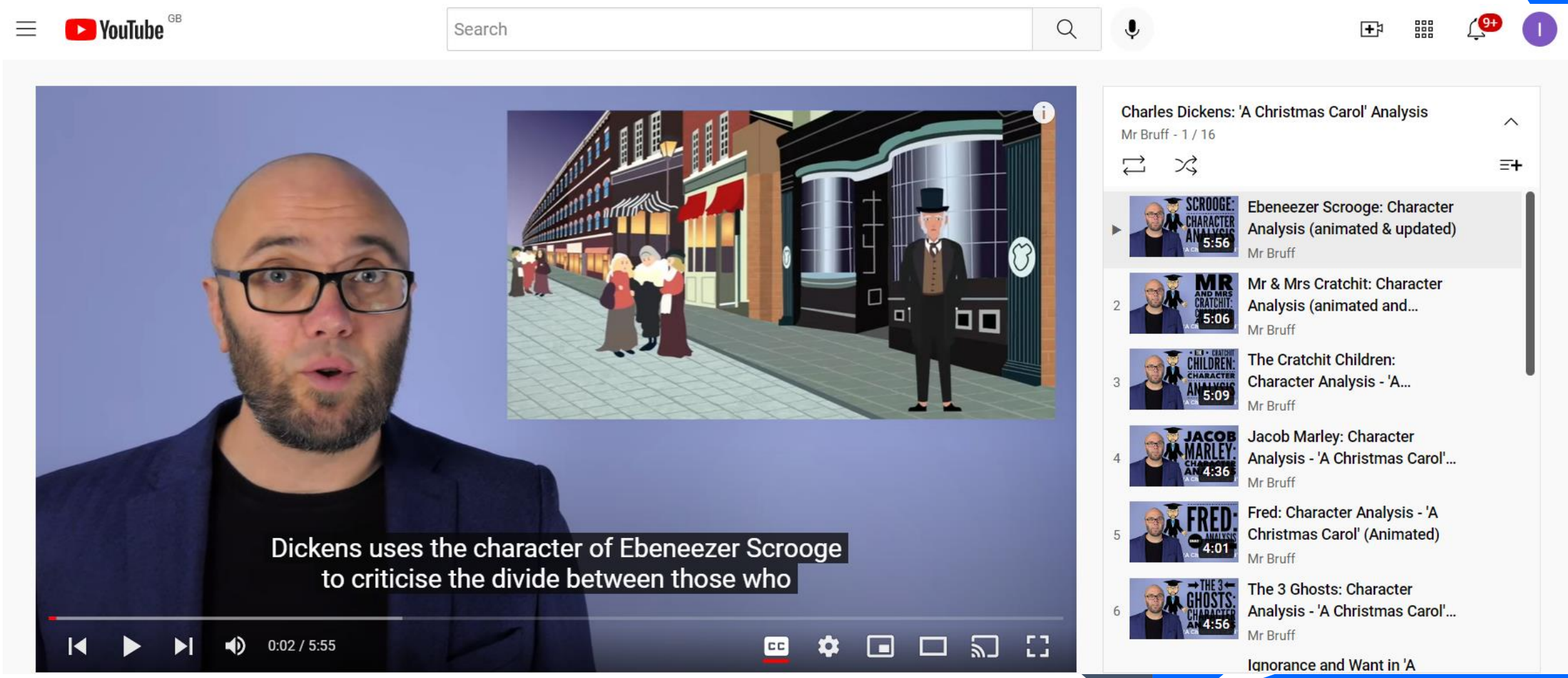
Online resources for English



Online resources for English



Online resources for English



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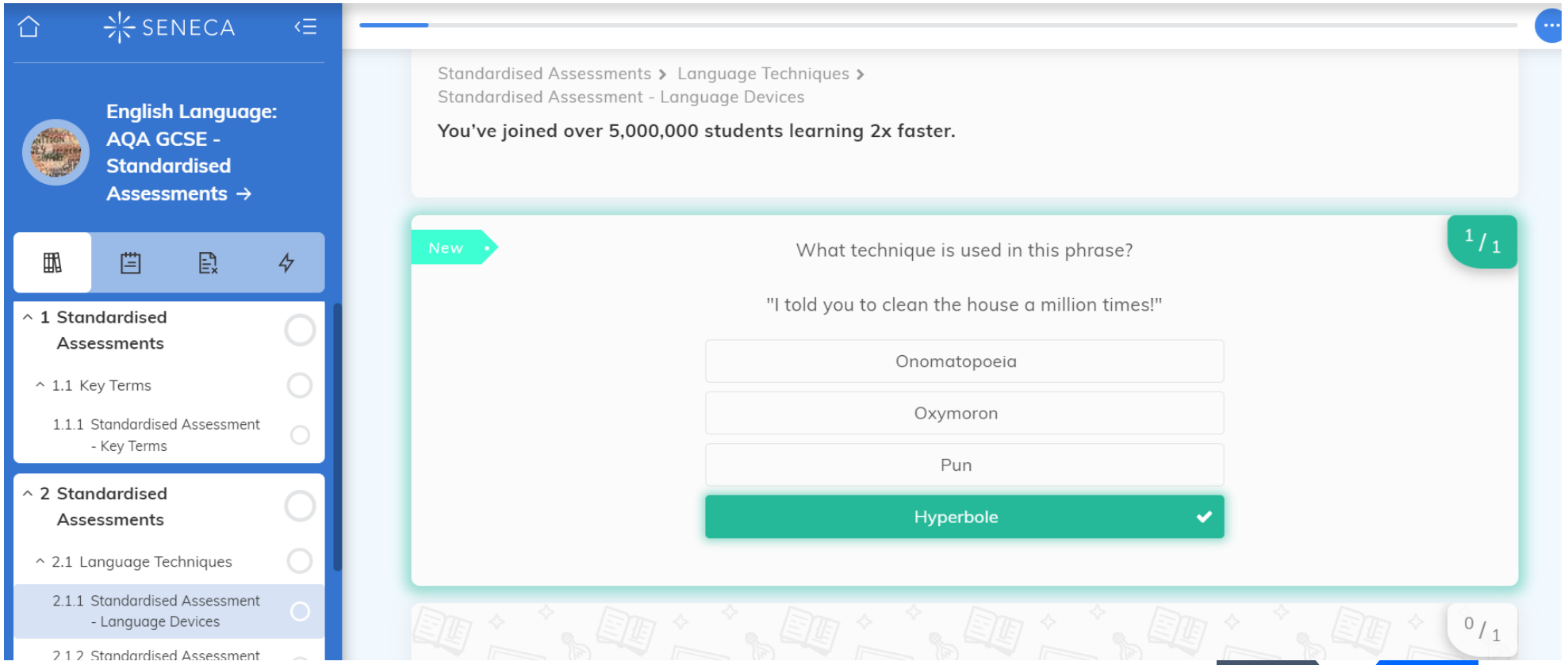

Revision Guide for Parents

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