



Year 11 Reaching for Success

Presenters this evening:

- Mrs Dunne, Assistant Headteacher and Faculty Leader for English
- Mr Hill, Assistant Headteacher and Faculty Leader for Maths
- Mr Twitchin, Director of Sixth Form



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Parent/Child/School – How can we be the most productive together?

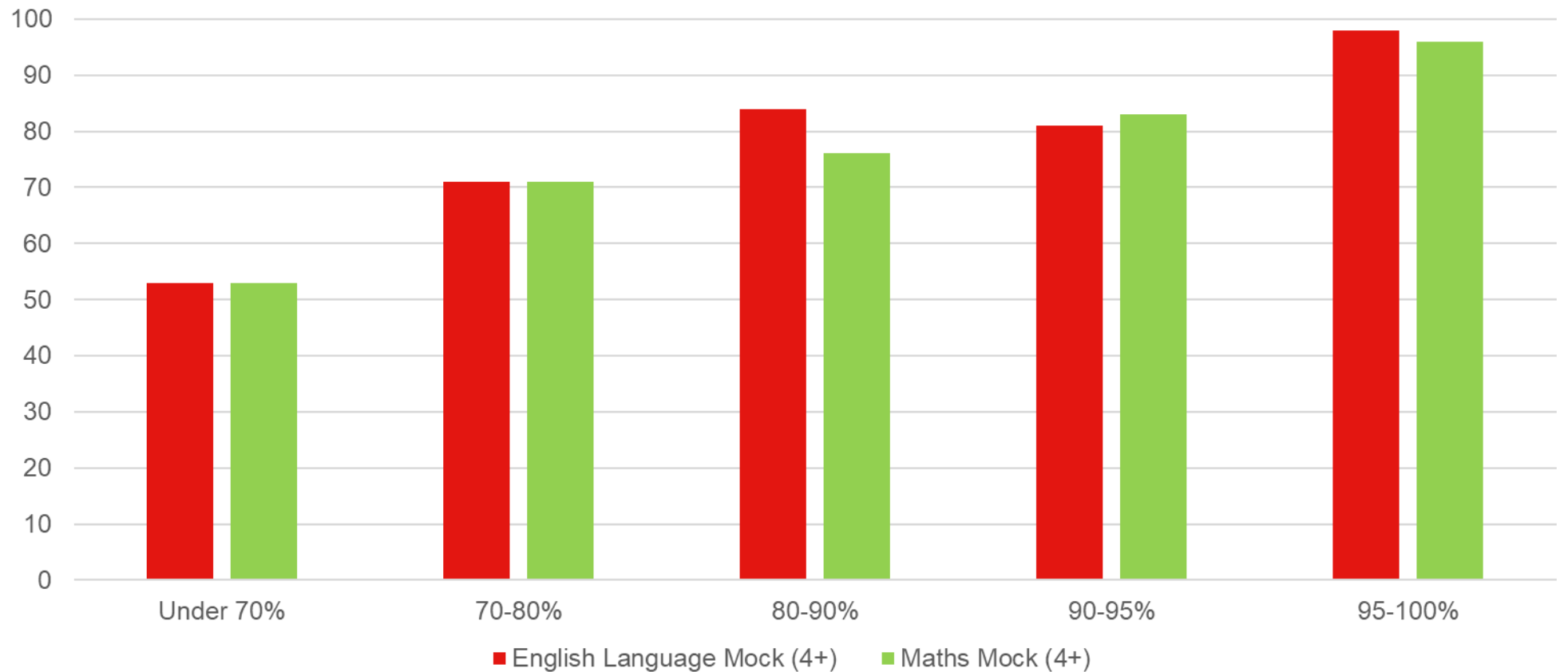
- **Attendance**





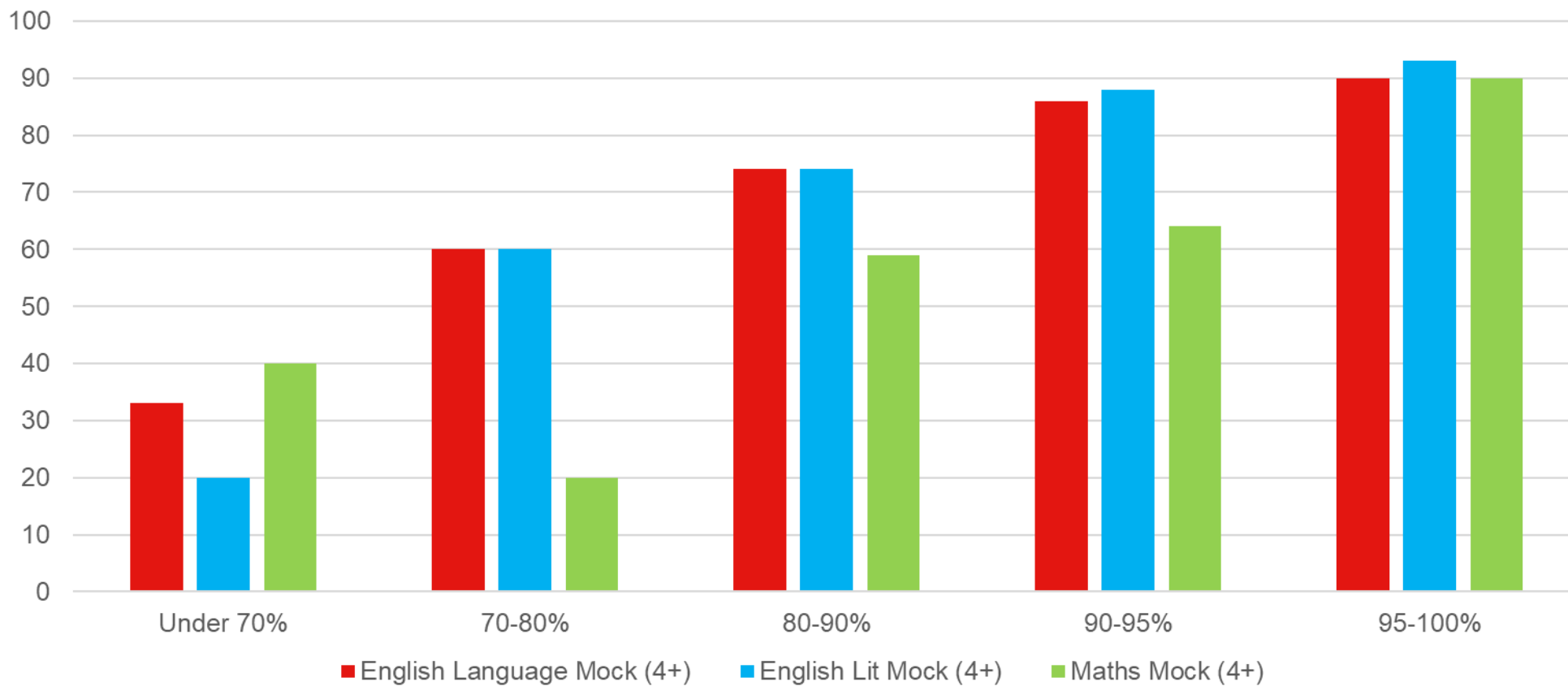
Attendance Vs Attainment

Graph of attendance vs % achieving Grade 4 in GCSEs last year





Graph of attendance vs % achieving Grade 4 in Year 11 mocks





- **Keeping up to date**
 - Supporting Success Showbie Group
 - The weekly student newsletter
 - Arbor
 - Class Charts

- **'The Plan'**
 - Finding Time – fun stuff 1st - Fill in the gaps
 - Prioritise – Sports, Social, Hobbies, TV, Jobs
 - Doing the Work
 - Non-required tasks Vs Home Learning
 - Non-required task planner – task orientated
 - Study groups and sharing the work



	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
07:00							
08:00	SCHOOL						Sleep In
09:00							
10:00						Hockey	
11:00							
12:00							
13:00							
14:00							
15:00							
16:00							
17:00							
18:00		Swimming		Swimming		Out With Friends	
19:00							
20:00				Cinema			
21:00							
22:00							
23:00							
00:00							



Procrastination

Reason - No motivation

Solution - Set a clear and specific goal

Reason - Overwhelmed

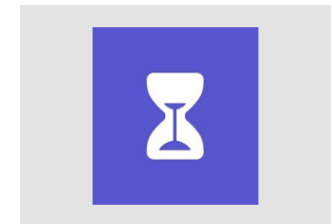
Solution - Break the work down, create a list

Reason - Dislike the work

Solution - Bribery, work with friends/parents

Reason - Social Media

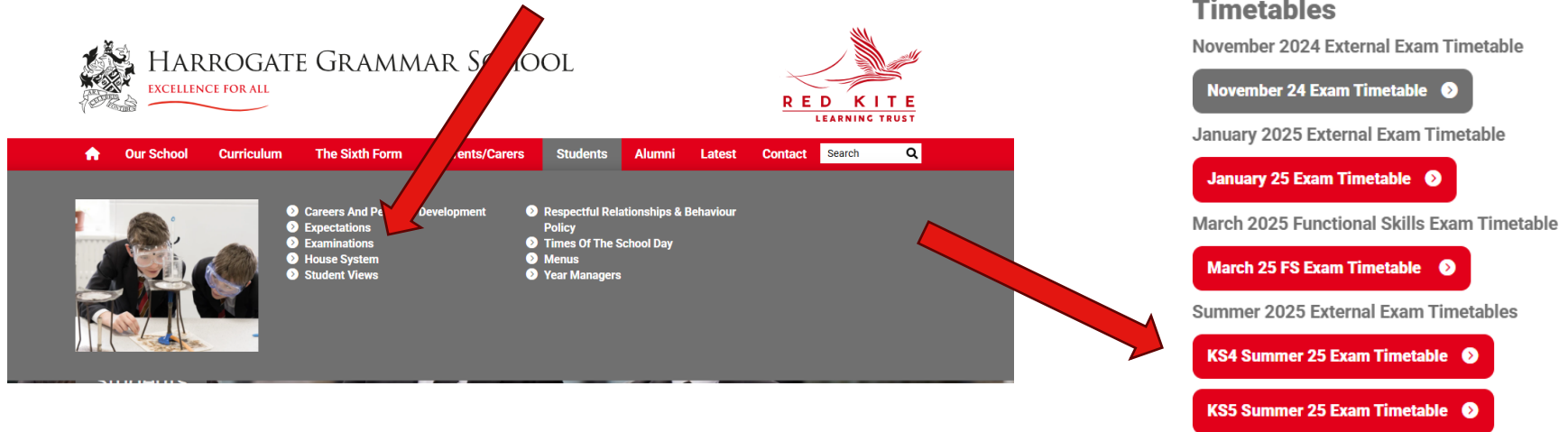
Solution - Hold, Focus Me, Restrain Yourself



Summer Exam Timetable now live

Available via the HGS website

- Home Page
- Click on Students
- Click on Examinations
- Scroll down to Timetables



The screenshot shows the Harrogate Grammar School website. The navigation menu includes: Home, Our School, Curriculum, The Sixth Form, Parents/Carers, Students, Alumni, Latest, and Contact. A red arrow points to the 'Students' menu item. Below the menu, there is a grid of links for 'Examinations' and 'Examinations' (with a sub-link for 'Examinations'). Another red arrow points to the 'Examinations' link. On the right side of the page, there is a section titled 'Timetables' with the following links: November 2024 External Exam Timetable, January 2025 External Exam Timetable, March 2025 Functional Skills Exam Timetable, and Summer 2025 External Exam Timetables (with sub-links for KS4 and KS5).

Harrogate Grammar School - Red Kite Learning Trust -
Year 11 Support



Learning is...

...a change in our long-term memory.

We know when we have learnt something when we can remember or recall something without even thinking about it or when we can do something without thinking about it.





Revision



- Re-vision means 'to see again'.
- Revisiting key knowledge and skills moves them into our long-term memory.



Retrieval Practice

- Active
- Focused
- Effortful



Creating The Right Conditions

- Tidy desk
- Quiet space
- Distraction free



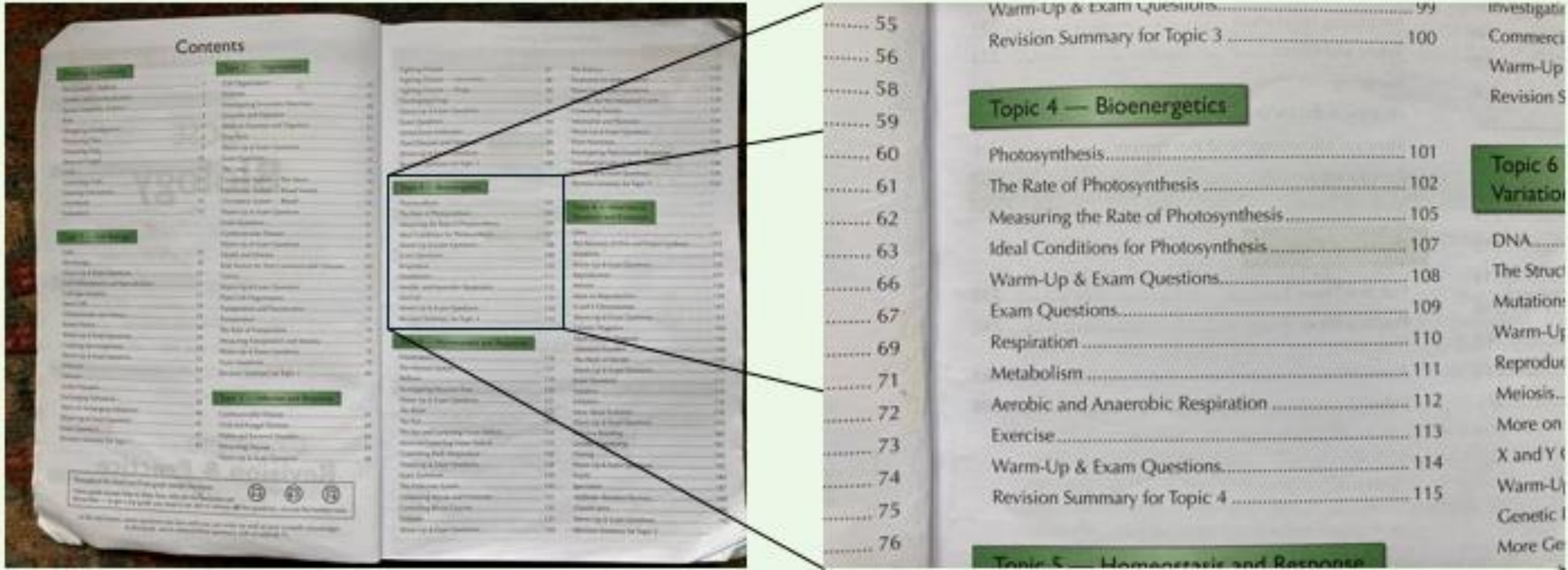


Revision – to see
again

Selecting the Right Strategies

1. Reading information in a guide, notes or a website
2. Watching a video clip
3. Copying out information or diagrams
4. Highlighting a guide or notes
1. Quizzing
2. Power of images
3. Brain 'dump'
4. Self-explanation
5. Practice Questions

Brain Dump and then look for gaps in knowledge



- 2) Re-visit information that you could not remember well – take a chunk at a time.
- 3) After each section, close the book and write down a summary of what you have studied.
- 4) Check back to see if you missed anything important. Add it to your summary in a different colour.
- 5) Create a flash card or some quiz questions from your summary to use later.

Topic 4 — Bioenergetics 101

Photosynthesis

First, photosynthesis equations. Then onto how plants use glucose...

Photosynthesis Produces Glucose Using Light


- 1) Photosynthesis uses energy to change carbon dioxide and water into glucose and oxygen.
- 2) It takes place in chloroplasts in green plant cells — they contain pigments like chlorophyll that absorb light.
- 3) Energy is transferred to the chloroplasts from the environment by light.
- 4) Photosynthesis is endothermic — this means energy is transferred from the environment in the process.
- 5) The word equation for photosynthesis is:

$$\text{carbon dioxide} + \text{water} \xrightarrow{\text{light}} \text{glucose} + \text{oxygen}$$

6) Here's the symbol equation too:

$$6\text{CO}_2 + 6\text{H}_2\text{O} \xrightarrow{\text{light}} \text{C}_6\text{H}_{12}\text{O}_6 + 6\text{O}_2$$

Plants Use Glucose in Five Main Ways...

- 1) For respiration — This transfers energy from glucose (see p.110) which enables the plants to convert the rest of the glucose into various other useful substances.
- 2) Making cellulose — Glucose is converted into cellulose for making strong plant cell walls (see p.17).
- 3) Making amino acids — Glucose is combined with nitrate ions (absorbed from the soil) to make amino acids, which are then made into proteins.
- 4) Stored as oils or fats — Glucose is turned into lipids (fats and oils) for storing in seeds. 
- 5) Stored as starch — Glucose is turned into starch and stored in roots, stems and leaves, ready for use when photosynthesis isn't happening, like in the winter. Starch is insoluble, which makes it much better for storing than glucose — a cell with lots of glucose in would draw in loads of water and swell up.

'Photo' means light and 'synthesis' means putting together...
 ...so photosynthesis means 'putting together using light'. And of course the thing being put together is glucose. Well, I guess that's one way of remembering it... (Maybe just learn the word equation instead.)

Topic 4 — Bioenergetics

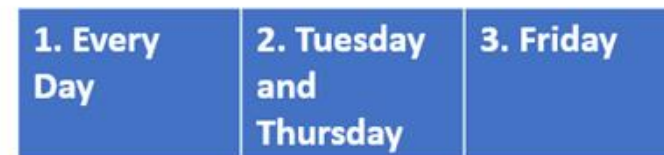


Using Flashcards

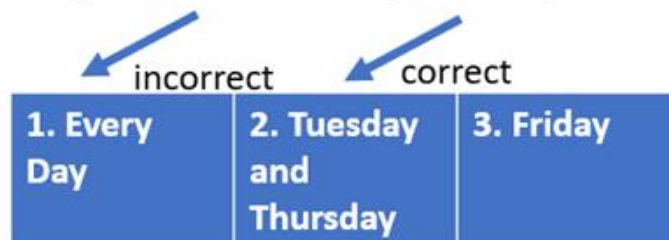
1. Split a box into 3 compartments and number them or have three separate numbered boxes:



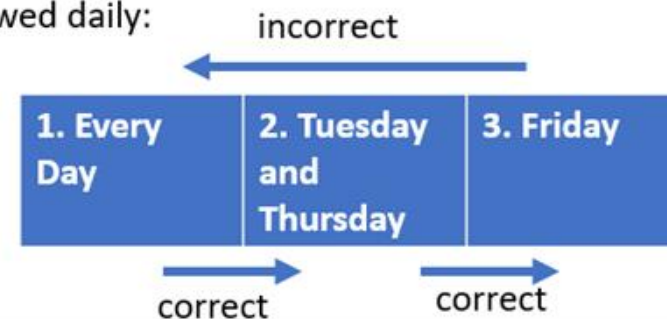
2. Place all your flashcards in compartment/box 1



3. Test on the flashcards in box one. If you recall the information, move the flashcard to compartment/box two. If not, place it back in compartment/box one



4. On Tuesday and Thursday (or every other day), test on boxes one and two. If you answer correctly, move the flashcard one box on. If incorrect, place the flashcard back in compartment/box one to be reviewed daily:





Self-explanation

- What does.....mean?
- Tell me about.....
- What is?
- Why did....happen?
- What causes...?
- What is the difference between...?
- How do you find/calculate/work out the....?



**You can't revise for
English!**

**Oh, Yes you
can!**



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English
Language

English
Literature

English Language
Spoken Presentation
Endorsement





Revision plan in lessons:

- Week 1 – Mocks. *Visit to 'Jekyll and Hyde' On Tour Tuesday 25th Feb.*
- Week 2 – Mocks. Start 'Animal Farm' Revision
- Week 3 – Language Paper 2 feedback and revision
- Week 4 - 'Romeo and Juliet' feedback and revision
- Week 5 - 'Jekyll and Hyde' feedback and revision. *Visit to 'Animal Farm' Leeds Playhouse 26th March*
- Week 6 - Literature Paper 1 revision

- *EASTER Revision sessions offered.*

- Week 1 – Easter Monday off. Poetry Anthology revision.
- Week 2 – Unseen Poetry and Poetry Comparison

- *Saturday 10th May 9:30am-12:30pm 'The Big Revision'*



Week 2: w/c 24 February 2025 – Focus is 'Animal Fram'

You MUST do	✓	RAG
Complete the 'Animal Farm' home revision tasks set in Arbor.		
Complete the 5-a-day starter revision questions in every lesson.		
Respond to <u>green-pen</u> marking and any live and verbal feedback given in lesson.		

You SHOULD do	✓	RAG
Attend the visit to see Animal Farm in production at Leeds Playhouse.		
Watch the Masterclass and complete the accompanying revision questions.		
Make flash cards/quote explosions for key quotations for characters and themes.		
Visit BBC Bitesize and take the plot, themes, context and character quizzes https://www.bbc.co.uk/bitesize/topics/zqp86fr		

You COULD do	✓	RAG
Choose four activities to complete from the How <u>To</u> Revise Guide shared with you in Showbie. Use the Bingo squares and tick them off when completed.		
Answer a past paper question and have it marked in ChatGPT.		



BBC iPlayer - 'Jekyll and Hyde'

- The story is read by Reece Shearsmith, he's excellent and really helps you understand the characters.

<https://www.bbc.co.uk/programmes/m0027pdf>

- It was followed by Ian Rankin documentary – only available for another 21 days.

<https://www.bbc.co.uk/programmes/b007qyzv>



Support in school:

- Drop-in revision session – Tuesday lunchtimes – A50 – all students can attend.
- Tuesday Big Picture Intervention – Invitation attendance.
- Wednesday P6 – Invitation attendance.
- Masterclass every Thursday after school.
- Saturday afternoon revision sessions – Invitation attendance.
- Saturday 10th May Revision morning – all students can attend.

Revision Ideas:

- Use the **How to Revise Guide** shared with you in Showbie.
- This folder contains the guide which gives you short independent revision tasks to complete for both Language and Literature. There are also links to Youtube English teacher videos for each question and literature text. There are also links to BBC Bitesize and instructions on how to use ChatGPT to mark any past paper answers.



English Language Revision Bingo - Knowledge & Application

Watch a <u>youtube clip</u> of an English teacher focusing on a specific question and make a list of the top 5 pieces of advice given.	EMC Language revision booklet pg6 & 7– complete a <u>paper 1 Q2</u> under timed conditions (10 mins)	Write down the timings for each question for each paper on a flashcard.	Read the beginning of a fiction novel and identify 6 features of descriptive language being used.
EMC Language revision booklet pg10-15) - complete a <u>paper 2 Q2</u> under timed conditions (10 mins)	Find your own article in a newspaper or online news website – identify the viewpoint of the article – find evidence which shows this viewpoint.	EMC Language revision booklet pg6 & 7– complete a <u>paper 1 Q3</u> under timed conditions (10 mins)	Complete an activity from pages 30 & 31 of the EMC Language revision booklet focusing on writing descriptively.
Read the model answer to <u>paper 2 Q2</u> and compare it your answer on <u>pg 49</u> of the EMC Language booklet.	Watch a BBC Bitesize video and take the spelling test: Spelling strategies - Spelling - AQA - GCSE English Language Revision - AQA - BBC Bitesize	Read the model answer to <u>paper 1 Q3</u> and compare it your answer on <u>pg 41</u> of the EMC Language booklet.	Complete an activity from pages 20, 21, 22 or 23 of the EMC Language revision <u>booklet</u> focusing on improving analysis and inference.
EMC Language revision booklet <u>pg 16</u> – plan a response to <u>paper 2 Q5</u> under timed conditions (10 mins)	Make a mind-map of the key features of writing to argue.	Watch a video of a famous speech and identify 6 rhetorical features used.	EMC Language revision booklet <u>pg 9</u> – plan a response to <u>paper 1 Q5</u> under timed conditions (10 mins)



English Literature Revision Bingo - Knowledge & Application

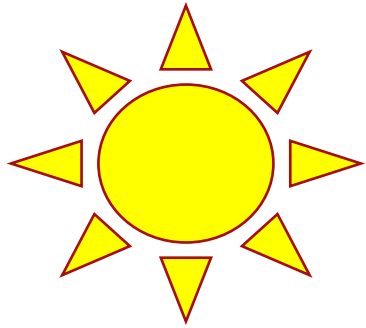
Complete the J&H Time Line Revision activity in Showbie Yr 11 2024 How to revise, J&H	Make key vocabulary lists for each text studied. Extend - Put your key vocabulary into sentences about the texts.	Make a bank of 'Killer Quotes' – these should be 10 key quotes which cover both character and theme.	Choose a past 'R&J' <u>question</u> from the Showbie folder in Yr11 2024 How to revise and write the plan for your answer.
Make flash cards of key quotes for each character from 'Animal Farm'	Visit BBC Bitesize for 'Animal Farm' – watch the revision videos <u>and take the test</u> linked at the bottom left. Animal Farm by George Orwell - BBC Bitesize	Find a past CAT question and rewrite a paragraph making improvements.	Write the thesis introduction and 1 perfect paragraph in response to past paper exam questions from Showbie or AQA GCSE English Literature Assessment resources
Make flash cards of up to 10 key quotes for each theme from 'Animal Farm'	Take the <u>self marking Quick Quizzes</u> on 'R&J' Romeo and Juliet: Full Play Quiz Quiz: Quick Quiz SparkNotes	Take the Quizlet flashcard test on poetry from Power and Conflict anthology- GCSE AQA Power & Conflict Poems Flashcards Quizlet	Write the plan to an answer on a past Unseen poetry question from Showbie or AQA GCSE English Literature Assessment resources
Visit BBC Bitesize for 'R&J' – watch the revision videos <u>and take the tests</u> linked in each area. Romeo and Juliet - GCSE English Literature - BBC Bitesize	Make flash cards of up to 10 key quotes for each character from 'R&J'	Make a comparison grid for the poetry from Power and Conflict anthology – which poems best compare and why?	Choose a task to complete from the bank of Literature revision tasks in Showbie Yr11 2024 How to revise, Literature homework menus.
Make flash cards of up to 10 key quotes for each character from 'R&J'.	Make flash cards of 5 key quotes for each poem from Power and Conflict anthology.	Explode your key quotes for character and themes made for your flashcards. 5 quotes at a time.	Find a past CAT question and rewrite a paragraph making improvements.





Flash cards/Mind maps

“Juliet is the
sun”



Romeo
Act 1 Sc5
Metaphor



Sun – warmth, life-giving, core of
universe, nurturing, v significant



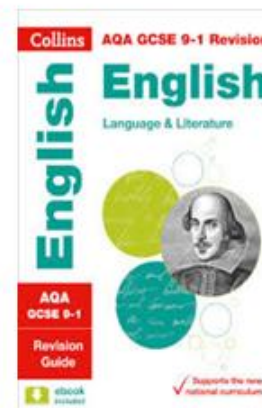
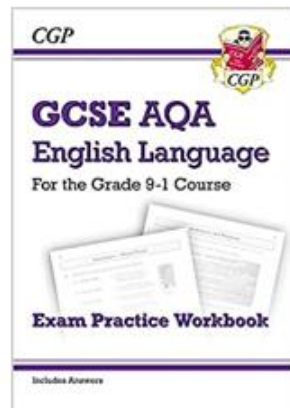
How can you support this revision?

- Check in – support your child by asking them to show you which Revision Bingo tasks they have completed? Are they doing their home learning?
- Ask your child the ‘Big Question’ about their key Literature texts – What is the big message behind this story or poem? What was the writer’s intention?
- Test students - use their flash cards/mind maps to test their knowledge.
- Read an answer – read an answer and check your child’s literacy and quality of communication.
- Encourage students to read – fiction texts and find newspaper/online articles.
- Debate key issues – encourage students to share their viewpoint on current issues.
- Attendance at school and intervention sessions – Tuesday Big Pic, Wednesday P6, Thursday Big Lectures, lunchtime LRC private study

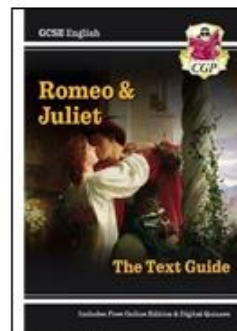


Study Guides

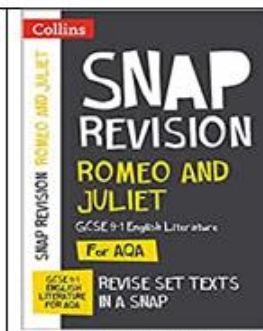
English Language Revision Guides and Workbooks:



English Literature Revision Guides and Workbooks: Each of these companies provide materials for each of the set texts that are detailed below.



CGP offer a text guide and a workbook.



Snap revision by Collins offer a revision guide and workbook.



Offer quote analysis and essay planning help



“Start revising early, do practice essays and do them in timed conditions!!!”



“Don’t leave everything to the last minute! For English Literature revise quotations you need and actively use them in practice essays. Make mind maps and flashcards of quotations and stick them up all over the house, on the fridge, on doors, on mirrors, in the bathroom (it might annoy your family but they’ll learn something too). Even if you hate flash cards, they’ll become your best friend!”



1. Make flashcards for each character in the text you study and include quotes and beside each quote colour code it to a theme. Create a colour key to show the themes.
2. Similarly with the poems, colour code key themes from quotes from each poem so you know which can be easily compared.
3. For English Language, focus on question 5, 40 marks, and practise with random photos or just write a topic sentence to ensure you can be creative on the spot!



Maths – Efficient ways to revise





Week 1: w/c 24 February 2025

You MUST do	✓	RAG
Complete this week's Sparx assignment, due Wednesday at 3pm		
Complete this week's Skills Task, due Wednesday at 3pm		
Finish a Staples paper and self-assess		

You SHOULD do	✓	RAG
Attend this week's online Maths masterclass, or watch the recording		
Attend the drop in on Wednesday during Lesson 6		

You COULD do	✓	RAG
Complete revision on 'Independent Learning' on Sparx – using the skills list: Sparx GCSE Revision Foundation.docx Sparx GCSE Revision Higher.docx		



Question Level Analysis (QLA)

- Your child received a **QLA sheet** from their teacher last Wednesday.
- The QLA **identifies the questions** which your child has been successful and unsuccessful with from their Mock exam.
- The codes on these sheets direct your child to the correct topic on Sparx Maths where there are **videos to support their understanding and questions to attempt**.
- **Encourage your child to complete these** effectively by reviewing the topic area, making revision notes and completing the exam questions.

Y11 Mock#2 Exam – HIGHER

	Objective (Edexcel June 2023 Paper 2 – calc)	Sparx Maths clip	Question Mark	Actual Mark	⊕ ⊖ ⊗ ⊘
1a	Using a calculator	U926	2	0	
1b	Find the reciprocal of a decimal		1	1	
2	Prime factor decomposition	U739	2	2	
3	Sharing amounts in a given ratio	U577	1	1	
4a	Reading and drawing inequalities on number lines	U509	1	1	
4b	Reading and drawing inequalities on number lines	U509	2	2	
4c	Solving single inequalities	U759	3	3	
5	Area of triangles & rectangles, construct and solve equations	U985, U326, U399	4	4	
6	Find % of amounts, share amounts in a given ratio	U349, U577	3	3	
7	Finding error intervals	U657	2	2	
8	Compound interest calculations	U932	4	4	
9a	Drawing cumulative frequency graphs	U182	2	2	
9b	Interpreting cumulative frequency graphs	U642	1	1	
10a	Calculate experimental probabilities, tree diagrams	U580, U558	3	3	
10b	Calculating experimental probabilities	U580	1	1	
11	Solving simultaneous equations using elimination	U760	4	4	
12	Using Pythagoras' theorem in 2D, Find the circumference of circles	U385, U604	4	4	
13	Prove 2 triangles are congruent	U866	3	3	
14	Simplifying algebraic fractions by factorising into two brackets	U394	3	3	
15	Position-to-term rules for quadratic sequences	U306	3	3	
16a	Drawing histograms with unequal class widths, Interpret histograms	U814, U983	2	2	
16b	Interpreting histograms	U983	2	2	
17	Venn diagram	U699	5	2	
18	Combining ratios, Calculating with ratios and algebra	U921, U676	3	3	
19	Bounds for calculations, find unknown angles in right-angled triangles	U587, U545	3	1	
20	Trigonometry problem	U545	4	4	
21	Invariant points	U766	2	2	
22	Tree diagrams for independent events	U558	2	0	
23	Finding the perimeter and area of similar shapes	U630	3	2	
24	Pythagoras' theorem, expand brackets with surds, Area of rectangles	U385, U406, U304	5	0	



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Finish a Staples paper and self-assess		

You SHOULD do	✓	RAG
Attend this week's online Maths masterclass, or watch the recording		
Attend the drop in on Wednesday during Lesson 6		

You COULD do	✓	RAG
Complete revision on 'Independent Learning' on Sparx – using the skills list: Sparx_GCSE_Revision_Foundation.docx		
Sparx_GCSE_Revision_Higher.docx		

You MUST do SPARX HOMEWORK

Sparx Maths

- **Compulsory homework** – carefully planned by teachers.
- Set every Wednesday at 3pm, due the following Wednesday at 3pm.
- Teachers have selected topics based on the QLA from the Mocks – to support your child with their revision.
- Check your child is doing this each week – offer to help them – build resilience. Aim for 100% completion!



Week 1: w/o 24 February 2025

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Complete this week's Skills Task, due Wednesday at 3pm		
Finish a Staples paper and self-assess		
You SHOULD do	✓	RAG
Attend this week's online Maths masterclass, or watch the recording		
Attend the drop in on Wednesday during Lesson 6		
You COULD do	✓	RAG
Complete revision on 'Independent Learning' on Sparx - using the skills list: Sparx_GCSE_Revision_Foundation.docx		
Sparx_GCSE_Revision_Higher.docx		

You MUST do SKILLS TASK HOMEWORK

- **Compulsory homework** – retrieval style questions.
- Set every Wednesday at 3pm, due the following Wednesday at 3pm.
- Weekly retrieval practice of key skills.

1) Calculate 59% of £435	2) Evaluate $10 \times 3.5^2 + \sqrt{3.1}$ Give your answer correct to 2 decimal places
3) A model is made using a scale of 1 : 40. If the actual length is 4 m what is the length of the model (in cm)	4) A bag contains 6 pink counters and 11 purple counters. What percentage of the counters are purple? Answer correct to 1 d.p.
5) Find $\frac{5}{8}$ of £90.00	6) Work out the duration from 3:25 am to 4:20 am
7) Find the product of 11.9 and 13.2	8) Divide £880 in the ratio 10 : 1
9) $y = 39 - 5x^2$ Find the value of y when $x = 2$	10) Express 240 as the product of prime factors



Week 1: w/o 24 February 2025

You MUST do	✓	RAG
Complete this week's Spax assignment, due Wednesday at 3pm		
Complete this week's Skills Task, due Wednesday at 3pm		
Finish a Staples paper and self-assess		

You SHOULD do	✓	RAG
Attend this week's online Maths masterclass, or watch the recording		
Attend the drop in on Wednesday during Lesson 6		

You COULD do	✓	RAG
Complete revision on 'Independent Learning' on Spax – using the skills list: Spax_GCSE_Revision_Foundation.docx Spax_GCSE_Revision_Higher.docx		

You MUST do STAPLES papers

30 minutes – STAPLES paper.

20 minutes – review of paper.

5 minutes – Student Record sheet.

Your child will complete a STAPLES paper in exam conditions on a **weekly basis**.

- Your child's teacher will model how to achieve each mark – your child will self-assess at the same time.
- Your child will record a topic to revise each week.
- Why? Raise your child's **confidence** in completing Maths questions in exam conditions, as well as familiarise your child with Edexcel **exam style questions**.

Staples Progress Sheet		
Week	Score /30	Topics to Improve
Week 1	10/30	1. 2.
Week 2	13/30	1. graphs for equations 2. making things subject of formula
Week 3	12/30	1. estimating mean from frequency graph 2. converting standard form
Week 4	14/30	1. multiplying mixed num fractions 2. index laws
Week 5		1. 2.
Week 6		1. 2.
Week 7		1. 2.
Week 8		1. 2.
Week 9		1. 2.
Week 10		1. 2.

“Good work Amelia. Today, you got 31/40 in your STAPLES paper. You have already secured a grade 3. And you have only done half of one paper!”



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Sparx_GCSE_Revision_Higher.docx		

You SHOULD do ONLINE MASTERCLASSES

Mondays – 5:00-5:45pm (Groups 1-2)

Wednesdays – 4:00-4:45pm (Groups 3-4)

Wednesdays – 5:00-5:45pm (Groups 5-6)

Online masterclasses are based on the QLA from the Mocks – to support your child with their revision.

Sessions are recorded and uploaded to Showbie – **Y11 Supporting Success**



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You COULD do	✓	RAG
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Sparx_GCSE_Revision_Higher.docx		

You SHOULD do INTERVENTION & DROP INS

- If your child has been invited to attend extra Maths sessions during Big Picture on Tuesday mornings, please encourage them to attend.
- Your child is completing past paper questions during these sessions – maximising exposure to exam style questions
- **Wednesday Lesson 6** – weekly drop in for students to complete past paper questions (perfect opportunity for your child if they have not been invited to Tuesday Big Picture sessions).

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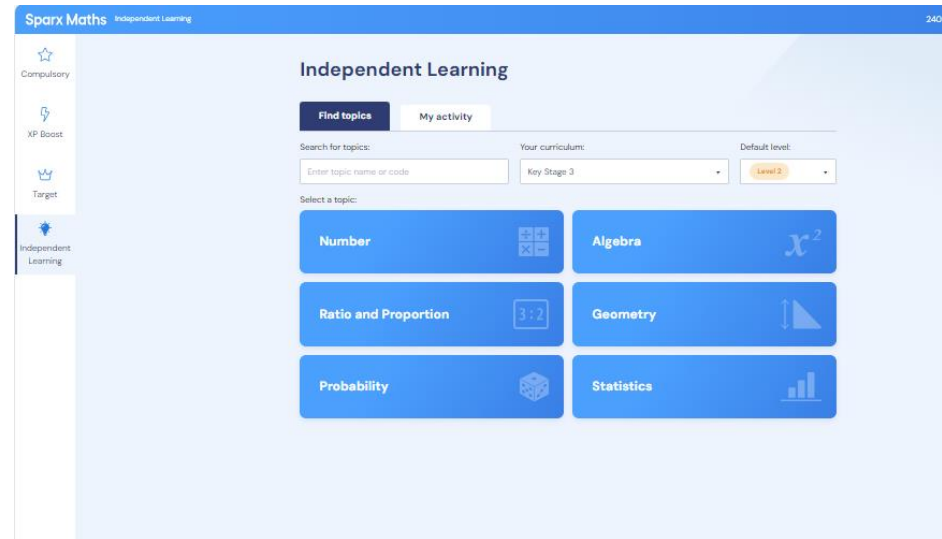
You SHOULD do	✓	RAG
Attend this week's online Maths masterclass, or watch the recording		
Attend the drop-in on Wednesday during Lesson 6		

You COULD do	✓	RAG
Complete revision on 'Independent Learning' on Sparx - using the skills list: Sparx_GCSE_Revision_Foundation.docx		
Sparx_GCSE_Revision_Higher.docx		

You COULD do

INDEPENDENT LEARNING on SPARX

- Independent Learning – you can utilise this to practise additional topics at home. Topics identified from: QLA, Staples each week, etc...
- Use the Sparx 'Skills List' to tick off all topics to revise.





Sparx Maths

Foundation Skills List

Number

Topic	Topic code	R	A	G
Ordering positive integers	U600			
Ordering decimals	U435			
Ordering negative numbers	U947			
Adding and subtracting positive integers	U417			
Multiplying and dividing positive integers	U127, U453			
Adding and subtracting negative numbers	U742			
Multiplying and dividing negative numbers	U548			
Adding and subtracting decimals	U478			
Multiplying and dividing with place value	U735			
Multiplying and dividing with decimals	U293, U868			
Order of operations	U976			
Prime numbers, prime factorisation	U236, U739			
Factors, multiples, HCF and LCM	U211, U751, U529			
Powers and roots	U851			
Using standard form	U330, U534			
Calculating with standard form	U264, U290, U161			
Equivalent fractions and simplifying fractions	U704, U646			
Mixed numbers and improper fractions	U692			
Ordering fractions	U746			
Addition and subtraction of fractions	U736, U793			
Multiplication and division of fractions	U475, U544			
Converting and ordering fractions, decimals and percentages	U888, U594			
Fractions of amounts	U881, U916			
Percentages of amounts	U554, U349			
Percentage change	U773, U671			
Reverse percentages	U286, U278			
Simple interest	U533			
Rounding	U480, U298			
Rounding to significant figures	U731, U965			
Estimating answers	U225			
Value for money	M681			

Sparx Maths

Foundation Skills List

Algebra

Topic	Topic code	R	A	G
Algebraic expressions	U613			
Collecting like terms	U105			
Substitution	U201, U585, U144			
Expanding brackets	U179, U768			
Factorising expressions	U365			
Index laws	U235, U694, U662, U103			
Changing the subject	U556			
Coordinates	U789, U889			
Midpoints	U933			
Plotting straight line graphs	U741			
Equations of straight line graphs	U315, U669			
Parallel lines	U377			
Distance-time graphs	U403, U914, U462, U966			
Quadratic graphs	U989, U667			
Linear equations	U755, U325, U870, U505, U599			
Quadratic expressions and equations	U178, U228			
Linear sequences	U213, U530, U498, U978			
Other sequences	U958, U680			

Ratio and proportion

Topic	Topic code	R	A	G
Simplifying ratios	U687			
Sharing amounts in a ratio	U753, U577			
Converting between ratios, fractions and percentages	U176			
Direct proportion	U721, U640			
Inverse proportion	U357, U364			
Proportion graphs	U238			
Units of measure: Length, Mass and Capacity	U102, U388			
Units of measure: Time	U902			
Units of measure: Area	U248			
Currency conversion	U610			
Conversion graphs	U652, U638, U862			
Compound units: Speed	U151			



Sparx Maths

Higher Skills List

Number

Topic	Topic code	R	A	G
Calculating with roots and fractional indices	U851, U985, U772, U299			
Converting recurring decimals to fractions	U689			
Surds	U338, U663, U872, U499			
Rationalising the denominator	U707, U281			
Error intervals	U657, U301, U587			

Algebra

Topic	Topic code	R	A	G
Expanding triple brackets	U606			
Operations with algebraic fractions	U685, U457, U824			
Factorising quadratic expressions: ax^2+bx+c	U858			
Simplifying algebraic fractions	U294			
Factorising to solve quadratics equations	U228, U960			
Using the quadratic formula	U665			
Completing the square to solve quadratics	U397, U589			
Quadratic equations in context	U150			
Quadratic simultaneous equations	U547			
Index laws	U235, U694, U662			
Equation of a straight line: Perpendicular lines	U898			
Quadratic graphs: Turning points	U769			
Quadratic simultaneous equations on graphs	U875			
Exponential graphs	U229			
Exponential growth and decay problems	U988			
Trigonometric graphs	U450			
Graph transformations	U598, U487, U455			
Velocity-time graphs	U937, U562, U611			
Rate of change graphs	U638, U652, U862			
Estimating gradient from a curve	U800			
Estimating area under a curve	U882			
Equation of a circles and tangents	U567			
Linear inequalities as graph regions	U747			
Quadratic inequalities	U133			
Functions	U637, U895, U448, U996			
Recurrence relations	U171			
Quadratic sequences	U206			
Iteration and numerical methods	U434, U168			
Algebraic proof	U582			

Sparx Maths

Higher Skills List

Ratio and proportion

Topic	Topic code	R	A	G
Algebraic direct and inverse proportion	U407, U138			
Compound units: Density problem solving	U910			

Geometry

Topic	Topic code	R	A	G
Congruence proofs	U866, U887			
Enlargements	U134			
Describe combined transformations	U766			
Circle theorems: Angles inside a circle	U459, U251			
Circle theorems: Tangents and chords	U489, U130			
Circle theorems problems	U808			
Prove circle theorems	U807			
Volume of frustums	U350			
Volume: Problem solving	U543, U426			
Similar Shapes: Area and volume	U630, U110			
Pythagoras' Theorem in 2D and 3D	U385, U541			
Right-angled trigonometry: Problem solving	U319, U283, U545, U967			
3D trigonometry	U170			
The area rule	U592			
Sine rule	U952			
Cosine rule	U591			
Trigonometry and bearings	U164			
Vectors problems	U781, U560			

Probability

Topic	Topic code	R	A	G
Product rule for counting	U369			
Conditional probability	U246, U821, U806			
Probability from Venn diagrams	U476, U748, U699			

Statistics

Topic	Topic code	R	A	G
Averages	U877, U717			
Cumulative frequency diagrams	U182, U642			
Box plots	U879, U837, U507			
Frequency polygons	U840			
Histograms	U814, U983, U267			
Capture-recapture	U328			



Week 1: w/c 24 February 2025

You MUST do	✓	RAG
Complete this week's Sparx assignment, due Wednesday at 3pm		
Complete this week's Skills Task, due Wednesday at 3pm		
Finish a Staples paper and self-assess		

You SHOULD do	✓	RAG
Attend this week's online Maths masterclass, or watch the recording		
Attend the drop in on Wednesday during Lesson 6		

You COULD do	✓	RAG
Complete revision on 'Independent Learning' on Sparx – using the skills list: Sparx GCSE Revision Foundation.docx Sparx GCSE Revision Higher.docx		



Please get in touch if you have any questions



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What to Revise

AQA GCSE Combined Science Trilogy

Individual Papers (1 hour 15 minutes)

- Biology Paper 1
- Biology Paper 2
- Chemistry Paper 1
- Chemistry Paper 2
- Physics Paper 1
- Physics Paper 2

x 2 GCSEs

AQA
GCSE



What to Revise Triple Science

Individual Papers (1 hour 45 minutes)

AQA

GCSE

AQA GCSE Biology

- Biology Paper 1
- Biology Paper 2

AQA GCSE Physics

- Physics Paper 1
- Physics Paper 2

AQA GCSE Chemistry

- Chemistry Paper 1
- Chemistry Paper 2

x 3 GCSEs



Where to find more information? AQA Website



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Home / Subjects / Science / GCSE / Combined Science: Trilogy (8464)

For 2024, an equations sheet will be provided for exams. This will be added as an insert with GCSE Combined Science: Trilogy Physics Paper 1 and Paper 2, or you can [download the equations sheet now](#).

GCSE Combined Science: Trilogy

8464

Showbie



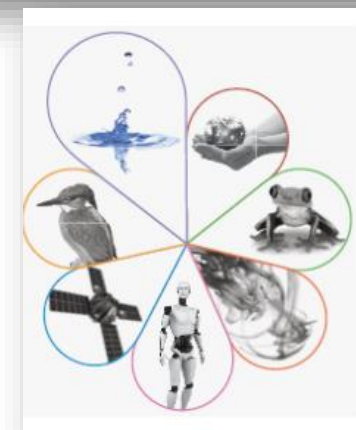
showbie



Paper 1 Revision
4 assignments



Paper 2 Revision
no assignments





How to revise?

Some Useful Resources

- **Showbie**

- **Google Drive**



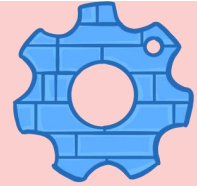
- Recommended revision guides

- BBC Bitesize



- **Seneca Learning**

- **Cognito Edu**



- ***Educake***

- **Isaac Physics**

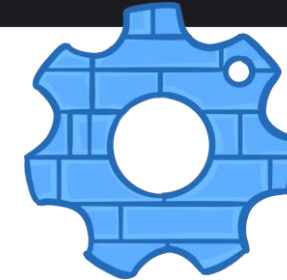


- **Brainscape (Biology)**





How to revise?



Cognito

Cognito - Learn
GCSE Maths,
Biology, Physics
and Chemistry
(cognitoedu.org)

Daily Goal 150 XP

0 / 150 XP

Current Streak: 0 days

Daily Goal Tracker

300
200
100
0

Tue Wed Thu Fri Sat Sun Mon

Lessons
Quiz
Flashcards
Exam-style Qs by Topic
Past Exam Qs by Topic (PDF)
Past Exam Papers (PDF)

Physics
GCSE Physics - AQA Higher Triple [\(change\)](#)

Maths
No Course Selected [\(select\)](#)

Biology
No Course Selected [\(select\)](#)

Chemistry
No Course Selected [\(select\)](#)



How to revise?

Google Drive



Shared with me > GCSE Science 1-9

Type

People

Modified

Name ↑

GCSE Astronomy 1-9

GCSE Biology 1-9

GCSE Chemistry 1-9

GCSE Physics 1-9

Maths Skills for Science

Science For Society

1) Past Paper Questions

2) Physics Equations

3) Knowledge Maps and Revision PowerPoints

4) PowerPoints and Worksheets

5) Physics videos

6) Physics Homework Plan and Homework Booklets

Old Specification GCSE Physics

Physics Stretch & Challenge

Recovery Curriculum

Revision Sessions

End of year 9 revision PHYSICS booklet (002).docx

Quizlets

Y11 Combined Foundation SPM1 Assessment MS.docx

Name ↑

Answers

ConservationanddissipationofEnergy.pdf

EnergyChangesinaSystem

EnergyChangesinaSystem.pdf

Methodsofgeneratingelectricity1.pdf

Methodsofgeneratingelectricity2.pdf

[Link here: GCSE Science 1-9 - Google Drive](#)



Revision Activities

- Best place for up to date and bespoke revision resources is Showbie.

- Review content using:-

- Showbie Resources
- BBC bitesize
- Seneca Learning
- Cognito Edu
- **Brainscape - Biology**

- Test knowledge using:-

- Showbie Resources
- Seneca Learning
- Cognito Edu
- **Brainscape - Biology**
- ***Educake***

- Apply knowledge:-

- Showbie Resources
- **Isaac Physics – Physics**
- ***Educake***
- Google Drive
- **Exam Questions**

- Exam Practice:-

- Showbie Resources
- Google Drive
- **Exam Questions**



How to revise?

Revision Strategies that work

- **Students can access all the revision resources they need through Showbie.**
- **Students should test they understand content using Educake and Brainscape. These should be used as small low stakes tests that are quick and easy to do.**
- **Students should complete past paper questions as often as possible.**
- To make the most of Past Paper Questions:-
- Students complete the questions without notes or help.
- If a student is unsure of a question, they should put a star next to the question.
- At the end of the allocated time the student should revisit any questions they couldn't do.
- The student should reattempt the question with books and notes.
- If the student still can't do the question they should use the mark scheme for help.
- In the future the student should reattempt any question they couldn't do first time.



Wider Support



- Science Masterclasses will be published to the Science Masterclass Showbie Group each week. They will also be emailed to students.
- Tuesday lunch Science drop-in A16. There is a focus on Required Practical Activities.
- Wednesday P6 Science in A16.
- Thursday lunch time Chemistry in A30.



HARROGATE
GRAMMAR SCHOOL
EXCELLENCE FOR ALL

The Sixth Form





Next steps

Subject
blocking is
being set

12th – 21st
March:
Coursing
discussions

28th March:
Offer Day

19th June:
Induction
Day

21st August:
Results
Day &
enrolment



What is the coursing discussion?

- This is not an interview
- A chance to speak to the Sixth Form Team
- We get to learn a little bit about our students
- Discussion about selected courses





How does the coursing discussion work?

- 10 – 15 minute appointment
- Timetabled during school, and visible on Arbor
- Parents to be notified in advance
- Opportunity to contact us afterwards with questions





Something to aim for

Entry requirements:

- 6 GCSE grade 4s, including 4 in English and 4 in Maths
- Subject specific entry requirements



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Any questions?

If you have any questions, please email to
mail@hgs.rklt.co.uk

Please include the reference Year 11 Information Evening.



www.harrogategrammar.co.uk