Welcome to Perins

PERINS SCHOOL

Year 10 Core Subjects Information Evening

January 29th 2026
Mr Nevola

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Working in partnership to achieve the best outcomes for your child

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Road to independence

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ARE YOU READY FOR EXAMS?

Time for Action

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Key Dates to be aware

- Year 10 Trial exams (mocks w/c 2nd March)

- Year 10 parents evening (23rd April)

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What we hope you take away from this evening

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Our team are ready to provide an understanding:

- How to ensure your child is prepared to get the best out of their lessons
- How best students can be helped to revise effectively
- What is being looked for and assessed in the GCSE core subjects

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Year 10 Assessment Schedules

January 29th 2026
Miss Sweetman

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Year 10 Mock week – Week commencing 2nd March

	Mon 2nd March	Tues 3rd March	Weds 4th March	Thurs 5th March	Friday 6th March
Session 1 (08.50 - 10.50)	English Language (1 hr)	Biology (1hr 20 m) Combined Science - Bio (1 hr 10 m)	Chemistry (1 hr 20 m) Combined Science - Chem (1hr 10 m)	Maths: Non-Calculator (1 hr 20 m)	Physics (1 hr 20 m) Combined Sci – Phys (1 hr 10 m)
Session 2 (11.10 - 13.10)	History (1 hr 20 m)	Maths: Calculator (1 hr 20 m)	Languages (1 hr 10 m) & Geography A (1 hr 20 m)	Geography B (1 hr 20 m) & Computer Science (1 hr 20 m)	English Literature (1 hr)

*This provides for core and EBACC subjects. Other subjects may plan to deliver exams in timetabled lessons.

Year 10 Calendar Dates

Year 10 Work Experience Week

Monday 23rd March- Friday 27th March 2026

Year 10 Parents Evening

Thursday 23rd April 2026 16:00-19:00

English

January 29th 2026
Mr Barber

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2 separate qualifications
2 terminal exams in each

English Language
2 exams, both 1h45, both 80 marks
3x unseen sources *(C19, C20, C21)*

Section A: Reading skills
Comprehension
Inference
Language analysis
Structure analysis
Evaluation
Comparison

Section B: Writing skills
Structuring
Vocabulary
Methodology
Accuracy & Variety

English Literature
2 exams: 1h45, 2h15
5 sections, mostly studied texts

Paper 1 (1h45, 64 marks, 40%)
Macbeth (30 + 4 for SPAG)
Jekyll and Hyde (30)

Section 2 (2h15, 96 marks, 60%)
'Modern Text' (30 + 4 for SPAG)
'Power and Conflict Poetry' (30)
Unseen Poem 1 (24)
Unseen poetry comparison (8)

Skills
Interpretation & evidencing
Analysis of writer's choices & their effects
Interpretation of contextual factors

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English: assessment composition

English Language

Paper 1 (1h45, 80 marks)
1 fiction source
4 comprehension & Analysis questions
1 descriptive/Narrative writing task

Paper 2 (1h45, 80 marks)
2 non-fiction sources
4 comprehension & Analysis questions
1 non-fiction writing task

English Literature

Paper 1 (1h45, 64 marks, 40%)
Macbeth (30 + 4 for SPAG)
Jekyll and Hyde (30)

Paper 2 (2h15, 96 marks, 60%)
'Modern Text' (30 + 4 for SPAG)
'Power and Conflict Poetry' (30)
Unseen Poem 1 (24)
Unseen poetry comparison (8)

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English GCSE – grades
What colleges and employers are looking for

“Grade 4 in English Language”

<u>Life skills</u>

Comprehension
Inference
Language analysis
Structure analysis
Evaluation
Comparison

Structuring
Vocabulary
Methodology
Accuracy & Variety

The higher the grade, the better these things have been evidenced

A good Literature score can support a bad Language score

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Being prepared for English

A PEN.

A pen which suits the student
Spare pens
A pencil & ruler
A charged laptop
Highlighters
Copies of the text

Recall

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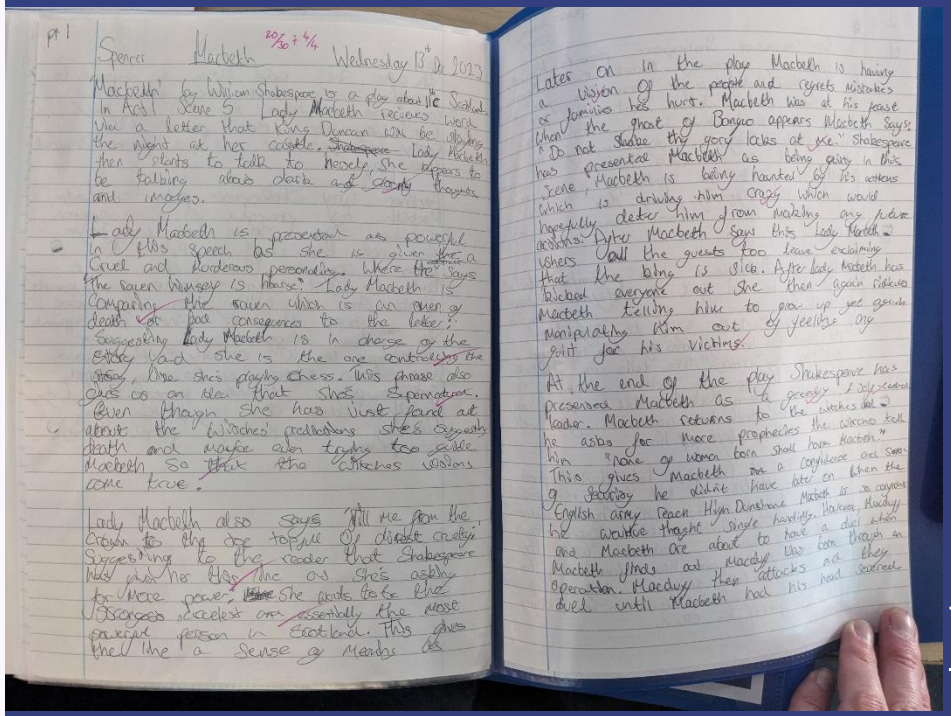
‘Perins expected standard’ in English

“Evidence of hard work in the classroom”

What does acceptable work look like?

Homework handed in on time
Seneca scores 80% or above, essays ‘a respectable length’
Punctual to lessons
Uses the time to do the task

Status	Learning Time	Avg	W1	W2	W3	W4	W5
✓	32min 28s	95%	100%	80%	75%	100%	100%
✓	7min 51s	93%	100%	67%	100%	100%	100%
✓	18min 12s	96%	90%	100%	75%	100%	100%
✗	16min 36s	67%	64%	80%	100%	57%	80%
✓	10min 11s	96%	100%	80%	75%	100%	100%
✓	6min 54s	96%	100%	80%	100%	100%	100%
✓	7min 31s	77%	80%	80%	50%	67%	100%
✗	-	-	-	-	-	-	-
✓	13min 6s	100%	100%	100%	100%	100%	100%
✗	-	-	-	-	-	-	-
✓	8min 54s	97%	100%	100%	100%	100%	100%
✓	7min 46s	97%	100%	100%	100%	80%	100%
✗	-	-	-	-	-	-	-
🕒	24min 49s	100%	100%	100%	100%	100%	100%



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‘Perins expected standard’ in English

“Evidence of hard work in the classroom”

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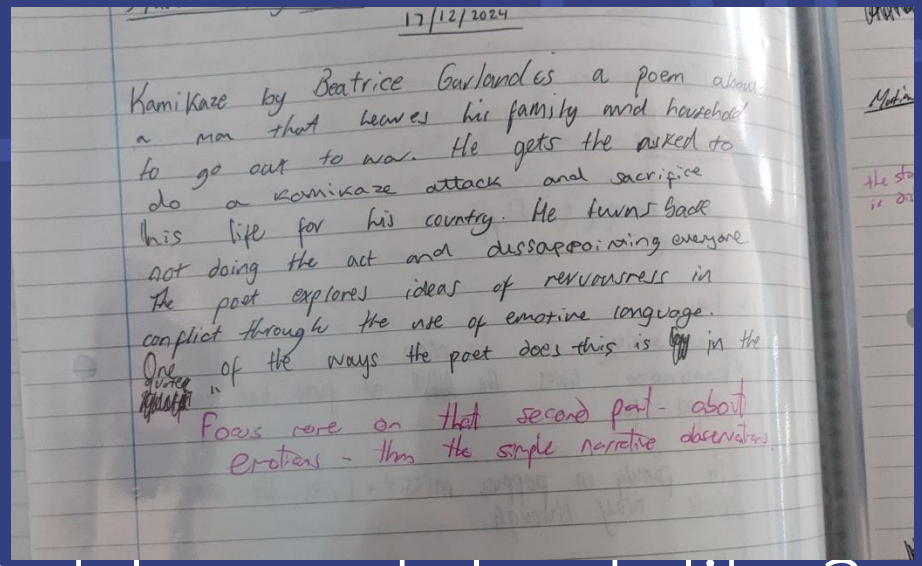

What does unacceptable work look like?

Homework late (or absent!) or low quality
Late to lessons or enters in wrong frame of mind
Quick to break silence or talk off topic
Requires too many reminders to stay on task
Does not use the time to complete the work

+ *naughty* behaviours like rude to staff, swearing, pushing and shoving, interfering with other people’s learning etc…)

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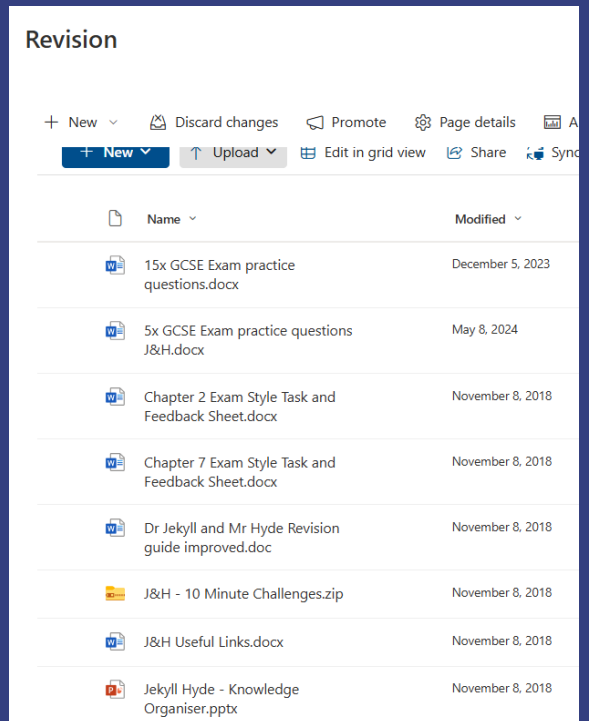
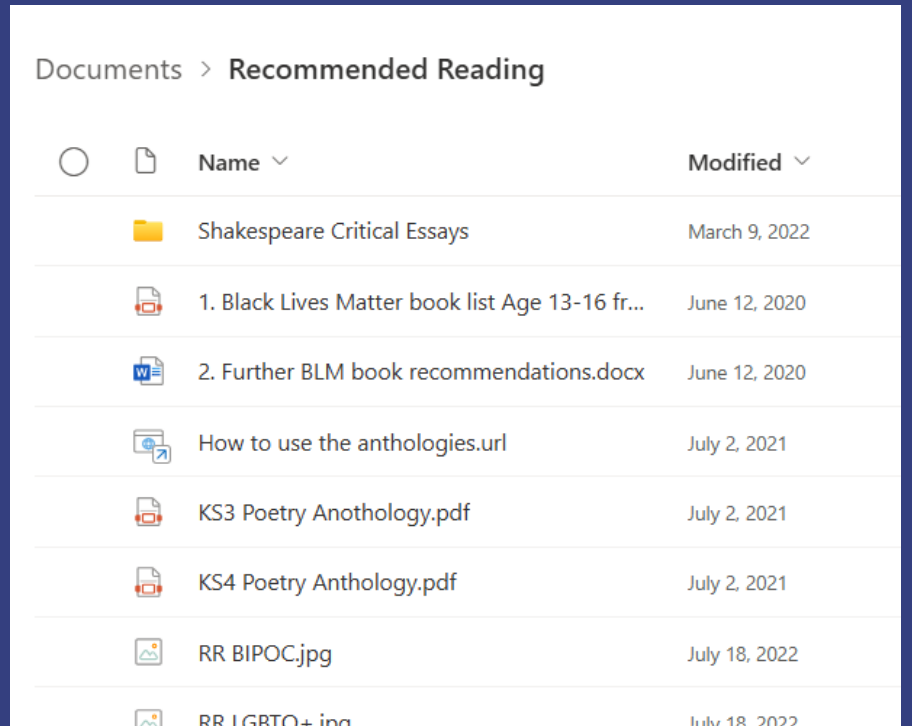
Revision – how does the school help?

Yr11 Tuesday lunchtimes and Thursdays after school
Books on Scopay including study guides and revision guides
Richly resourced Curriculum Hub and Revision Area
Trips & events
Simple homework strategy (Seneca and essays)
Some targeted, personalised, invitation-only provision (albeit limited, and not until yr11)





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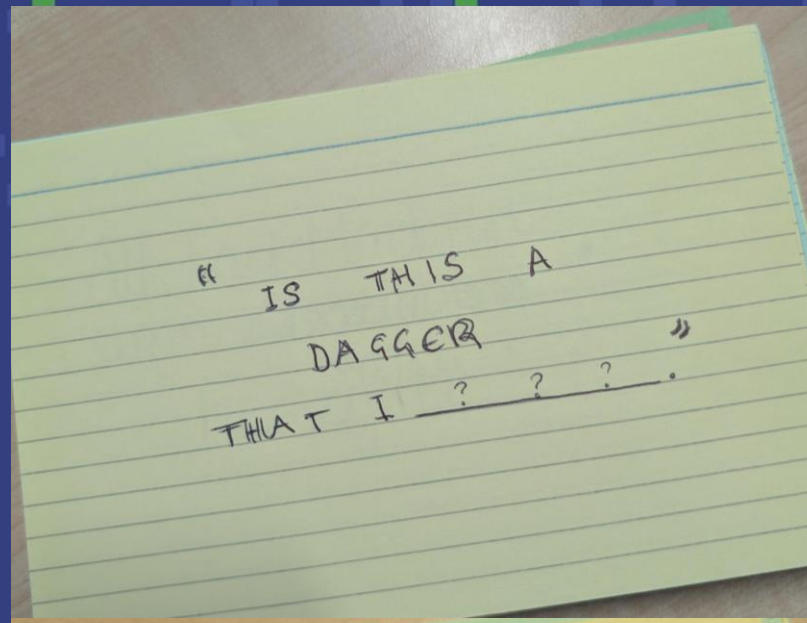
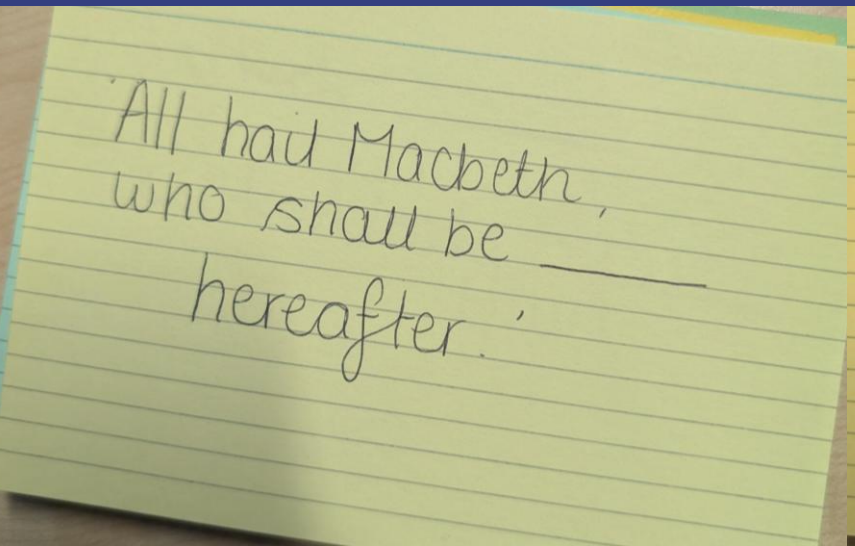
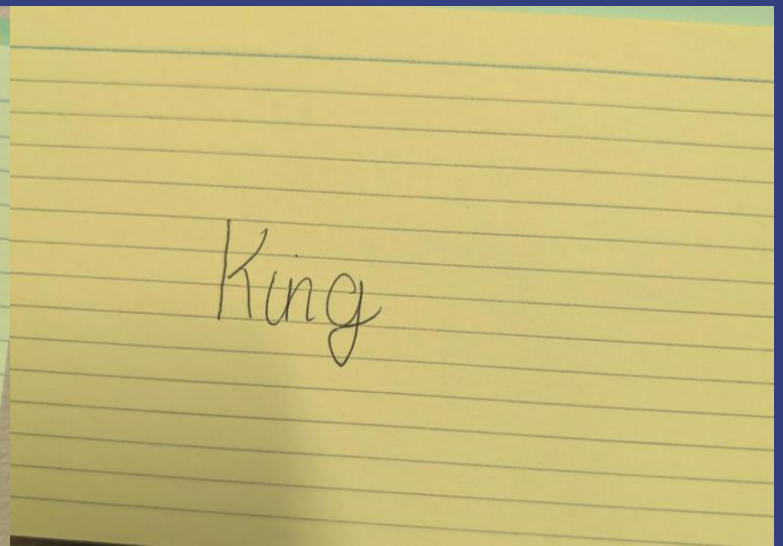
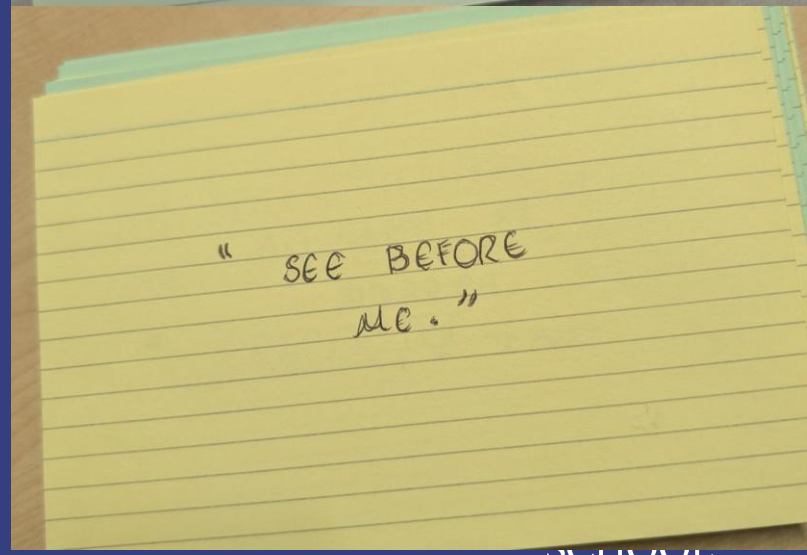
Revision – how can you help?

Conversations
Create an appropriate space for independent study
(Accountability for focus, establish boundaries!)
Resource it as best you can
Flashcards & other participation
Theatre trips!?









Mathematics

January 29th 2026
Mr Holligan

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Mathematics GCSE – what it entails

- Pearson Edexcel: 3 papers, each 90 minutes long
- 1 non-calculator paper; 2 calculator papers
- Questions are 1 – 7 marks; emphasis on workings

- Foundation Grade 1 – 5
- Higher Grade 3 – 9
- GCSE is given for 'mathematics' and does not reference the tier

- Decision on tier of entry is finalized in February of Year 11; but students need to know where they are at before then!

Foundation	Grade	Higher
	9	
	8	
	7	
	6	
	5	
Pass	4	Pass
	3	
	2	
	1	
	U	

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Mathematics GCSE – what colleges and employers are looking for

Mathematics is nationally the most popular A level choice~ (and most respected by universities). Generally, colleges will ask for a minimum Grade 7 at GCSE.

Many employers will look for a Grade 5 as a 'Good' pass

4 is a pass ('C'). Students who fail to meet this are required to retake at college (until turning 18)

Foundation	Grade	Higher
	9	85%
	8	73%
	7	**60%**
	6	47%
77%	5	**33%**
62%	4	**22%**
46%	3	16%
30%	2	
15%	1	
	U	

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Being prepared for maths

- Students are encouraged to look after their own books
- Students need a MODERN scientific calculator
- Students who have and use their own calculator do better in exams

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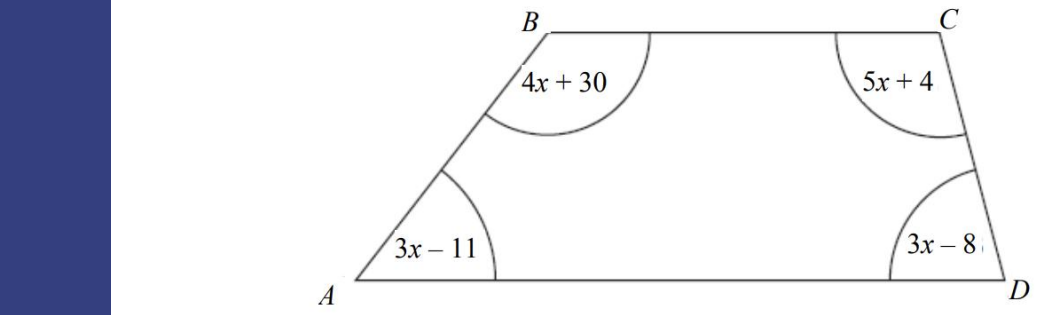
What does it mean to do maths?

Department for Education

Ensure that all pupils …
Become fluent in the fundamentals of mathematics
Reason mathematically by following a line of inquiry
Can solve problems … persevering in seeking solutions

Typical 4-mark crossover question

ABCD is a quadrilateral.



All angles are measured in degrees.

Show that *ABCD* is a trapezium.

(Total for Question 7 is 4 marks)

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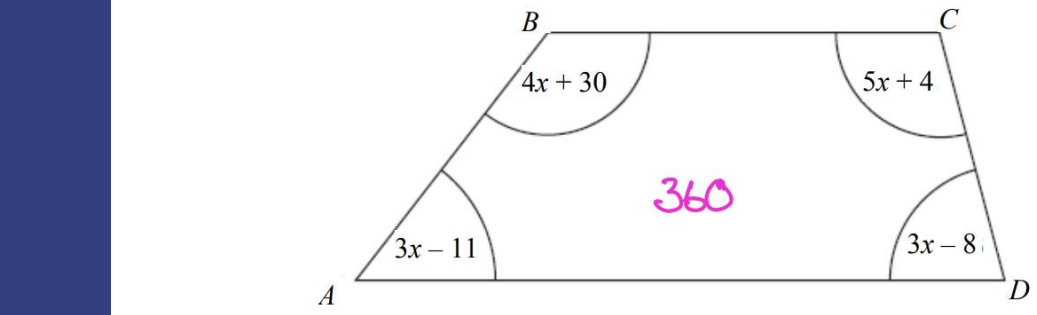
What does acceptable work look like?

- Clearly laid out method
- Steps can be followed by the examiner & conclusion is clear
- Maths teachers model methods in class
- Students need to practice their working (before they get into the exam!)

ABCD is a quadrilateral.



All angles are measured in degrees.

Show that *ABCD* is a trapezium.

$4x + 5x + 3x + 3x + 30 + 4 - 8 - 11 = 360$

$15x + 15 = 360$

$15x = 345$

$x = \frac{345}{15}$

$= 23$

$A = 3 \times 23 - 11 = 58$

$B = 4 \times 23 + 30 = 122$

$C = 5 \times 23 + 4 = 119$

$D = 3 \times 23 - 8 = 61$

$A + B = 58 + 122$

$= 180$

$C + D = 119 + 61$

$= 180$

ABCD is a trapezium as there are two pairs of conterior angles.

(Total for Question 7 is 4 marks)

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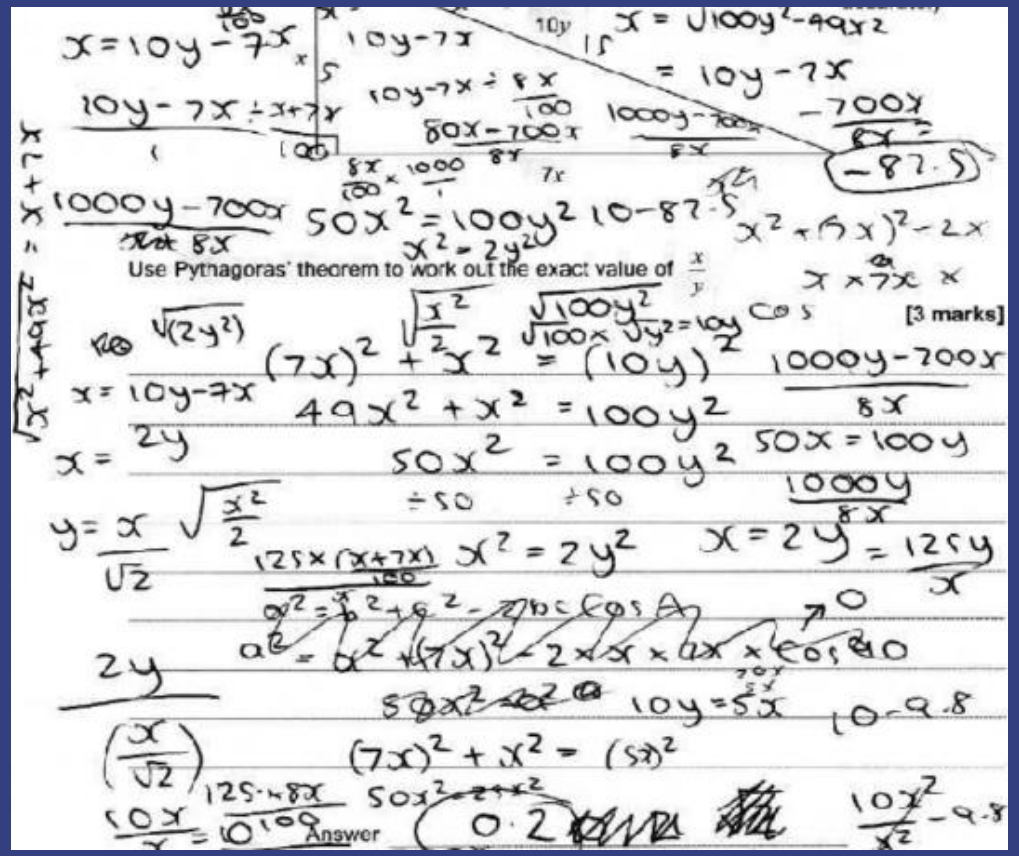
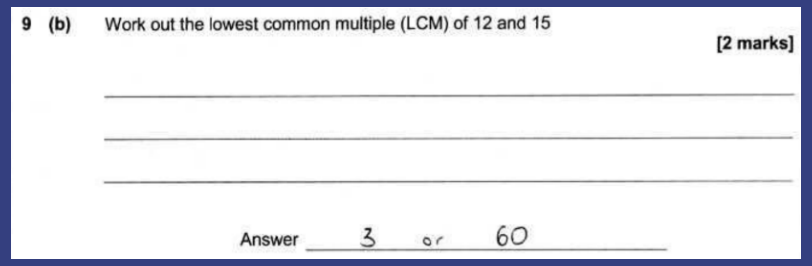
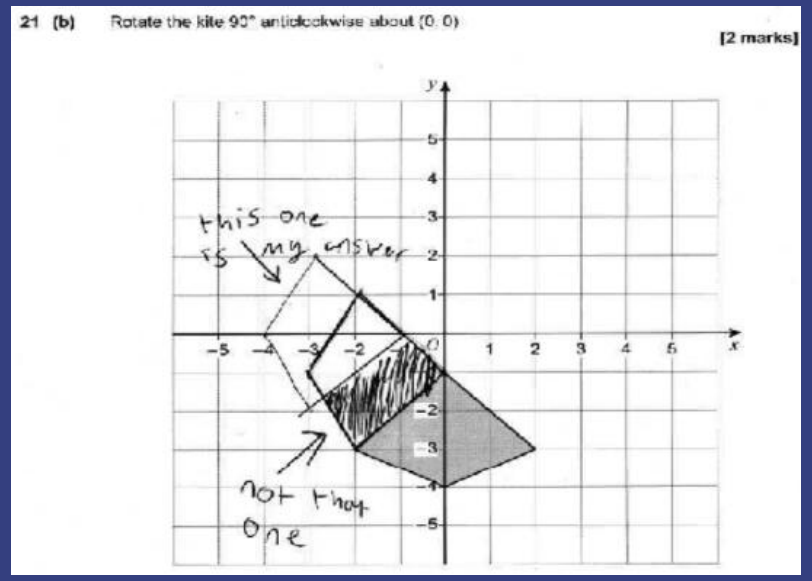
What does unacceptable work look like?

- These have been provided by the Exam board as examples of '0' scores
- Workings need to be laid out clearly
- Questions need to be answered fully
- Students MUST use a pencil for diagrams







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How to revise maths?

Skills practice

- Sparx
Homework
Independent learning
Sparx Maths

- Corbettmaths
How to videos
Practice questions/ans
Videos and Worksheets – Corbettmaths

- MathsMadeEasy
Revision by topic/grade
Sample questions
Edexcel GCSE Maths Revision | Past Papers | Tests | Worksheets (mmerevise.co.uk)

Past paper questions

- Provided by school
Materials on Sharepoint / Edulink
Maths - Home (sharepoint.com)

- Maths genie
Has past papers with sample answers written in a student friendly way
https://www.mathsgenie.co.uk/papers.php

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How can you help at home?

- Look through your childs' exercise books with them
- ✓ What have they been studying?
- ✓ Are they correcting their own work & modelling answers?
- ✓ Are loose sheets stuck in? (some students struggle to complete this in class where teaching time is a premium)
- If possible, provide a quiet space for revision with social media turned off
- ✓ GCSE maths is based on an ability to independently solve problems
- If possible, print out revision lists and past papers
- ✓ It's helpful to practice writing answers (most students who use a laptop for other subjects will still do their GCSE maths on paper)
- Make sure they come to school with the right equipment
- Students who have and practice using their own equipment will do better in their exams

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How does the school help?

- Year 10 mocks are an early chance to practice in exam conditions
- **We provide revision lists, lessons on how to revise, online revision material & sample papers**
- Students take their completed papers home & get a current 'grade'
- With a detailed breakdown of where they are gaining / losing marks
- Which provides for a focussed discussion at parents evening

Revision Checklist (Foundation) **Year 9**

1	Integers and Decimals	Check
	Types of number	
	Use and order positive and negative numbers	M527
	Use inequality symbols	
	Four operations using positive and negative numbers	
	Round to nearest 10, 100, 1000 and use to estimate	
	Use decimals and place value	
	Compare and order decimal numbers	M553
	Four operations using decimal numbers	
	Round to nearest integer, decimal place & significant fig.	
	Use one calculation to check another	
	Use index laws to simplify & calculate value of expression	
	Convert between ordinary numbers and standard form	
	Work with the four operations in standard form	
	Use a calculator with indices and standard form	U161
2	Algebra and Expressions	Check
	Write an expression	
	Collect like terms	
	Simplify expressions	U105
	Use index laws	
	Expand single brackets	
	Simplify expressions using squares and cubes	
	Factorise expressions	U365
	Substitute into expressions involving brackets & powers	
	Substitute into a formula (& word formula)	
	Know the terms equation, identity, expression etc.	
	Answer simple 'show that' questions	
3	Factors, Multiples, Powers and Roots	Check
	Find squares and cubes	U851
	Use index notation including negative powers	

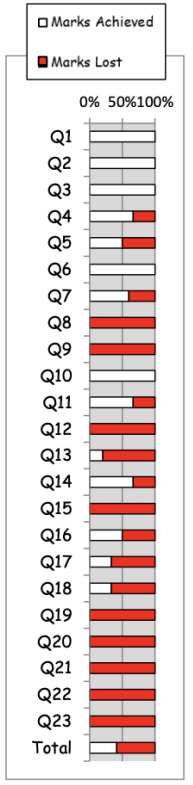
3	Use laws of indices to multiply & divide numbers	
	Order of operations including powers and brackets	
	Use of calculator	M757
	Identify factors, multiples and prime numbers	
	Prime factorisation of a number (& write in index form)	
	Find common factors & highest common factor	
	Find LCM of two (or three) numbers	
4	Interpreting and Representing Data (1)	Check
	Sort and classify data (inc. tally charts)	
	Extract data from lists and tables (inc timetables)	
	Identify mode from a list / table	
	Draw and interpret bar charts (inc dual & composite)	
	Draw and interpret line graphs (vertical & time-series)	
	Draw and interpret pictograms	
	Draw and interpret stem and leaf diagrams	
	Draw and use pie charts	
	Draw and interpret scatter graphs & lines of best fit	U199/U277
	Understand bias	
	Calculate the mean, mode, median and range from a list	M440
5	Fractions, Decimals and Percentages	Check
	Equivalent fractions including simplifying & comparing	
	Express one amount as a fraction of another	
	Convert between mixed numbers and improper fractions	
	Four operations using fractions	
	Find a fraction of an amount	
	Use fraction to decimal conversions	M958
	Recognise terminating & recurring decimals	
	Convert between fractions, decimals & percentages	
	Order & compare fractions, decimals & percentages	
	Write one amount as a percentage of another	

5	Calculate percentage of an amount	U349/U554
	Use decimals to find quantities (multiplier methods)	
	Four operations with mixed number fractions	
	Reciprocal of an integer, decimal or fractions	
6	Equations and Inequalities	Check
	Use function machines	
	Solve equations (inc brackets & unknowns on both sides)	
	Set up & solve equations to solve problems	
	On a number line	
	Listing numbers that satisfy an inequality	
	Solving inequalities and show solution on a number line	
8	Angles and Polygons	Check
	Measure and draw lines, angles, 2D & 3D shapes	
	Identify and name 2D shapes and their properties	U121
	Identify parallel and perpendicular lines	
	Use angle facts - around a point, straight line, opposite etc	U655
	Use angle properties of parallel lines	
	Interior and exterior angles of polygons	
	Use sum of interior angles for irregular & regular polygons	
	Use sum of exterior angles for regular polygons	
9	Plotting and Interpreting Graphs	Check
	Use coordinates in all four quadrants	
	Midpoints of a line segment	
	Conversion graphs	
	Fixed cost and cost per unit graphs	
	Draw, use and interpret (inc gradient) straight line graphs	
	Identify parallel lines	
	Find the equation of a line (including from a graph)	

Number Algebra Geometry Data

Paper 1

	Description	Marks Achieved	Marks Available	Marks Lost
Q1	*Arithmetic Sequences*	2	2	0
Q2	*Fractions Sums*	3	3	0
Q3	*Area Problems*	5	5	0
Q4	*Venn Diagrams*	2	3	1
Q5	*Estimation*	2	4	2
Q6	*Straight Line Graphs*	4	4	0
Q7	*Ratio Problem Solving*	3	5	2
Q8	*Averages*	0	3	3
Q9	*Percentage Change*	0	1	1
Q10	*Simultaneous Equations*	4	4	0
Q11	*Transformations*	2	3	1
Q12	*Types of Graph*	0	3	3
Q13	*Histograms*	1	5	4
Q14	*Triple Brackets*	2	3	1
Q15	*Sectors*	0	4	4
Q16	*Algebraic Probability*	1	2	1
Q17	*Surds*	1	3	2
Q18	*Recurring Decimals to Fractions*	1	3	2
Q19	*Similar Triangles*	0	3	3
Q20	*Powers and Roots*	0	3	3
Q21	*Vol and Surface Area*	0	5	5
Q22	*Trigonometric Graphs*	0	4	4
Q23	*Circles*	0	5	5
Total		33	80	47



Reflection

Silly Mistake | Need to Practise | Top

Answers: htt

Science

January 29th 2026

Mr Adams

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Combined Science – 2 GCSE's

BIOLOGY	CHEMISTRY	PHYSICS
1. Cell Level Systems	1. Particles	1. Matter
2. Scaling up	2. Elements and Bonding	2. Forces
3. Organism Level Systems	3. Chemical Reactions	3. Electricity and magnetism
4. Community Level systems	4. Predicting Chemical Reactions	4. Waves and Radioactivity
5. Genetics	5. Rate of Change	5. Energy
6. Global Challenges	6. Global Challenges	6. Global Challenges

Biology Paper 1 Units 1-3 70 minutes 60 marks	16.7% of GCSE	Chemistry Paper 1 Units 1-3 70 minutes 60 marks	16.7% of GCSE	Physics Paper 1 Units 1-3 70 minutes 60 marks	16.7% of GCSE
Biology Paper 2 Units 4-6 70 minutes 60 marks	16.7% of GCSE	Chemistry Paper 2 Units 4-6 70 minutes 60 marks	16.7% of GCSE	Physics Paper 2 Units 4-6 70 minutes 60 marks	16.7% of GCSE

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Separate Science Path – 3 Sciences

BIOLOGY	CHEMISTRY	PHYSICS
1. Cell Level Systems	1. Particles	1. Matter
2. Scaling up	2. Elements and Bonding	2. Forces
3. Organism Level Systems	3. Chemical Reactions	3. Electricity
4. Community Level systems	4. Predicting Chemical Reactions	4. Magnetism
5. Genetics	5. Rate of Change	5. Waves
6. Global Challenges	6. Global Challenges	6. Radioactivity
		7. Energy
		8. Global Challenges

Biology Paper 1 Units 1-3 105 minutes 90 marks	50% of GCSE	Chemistry Paper 1 Units 1-3 105 minutes 90 marks	50% of GCSE	Physics Paper 1 Units 1-4 105 minutes 90 marks	50% of GCSE
Biology Paper 2 Units 4-6 105 minutes 90 marks	50% of GCSE	Chemistry Paper 2 Units 4-6 105 minutes 90 marks	50% of GCSE	Physics Paper 2 Units 5-8 105 minutes 90 marks	50% of GCSE

Biology GCSE 1-9	Chemistry GCSE 1-9	Physics GCSE 1-9

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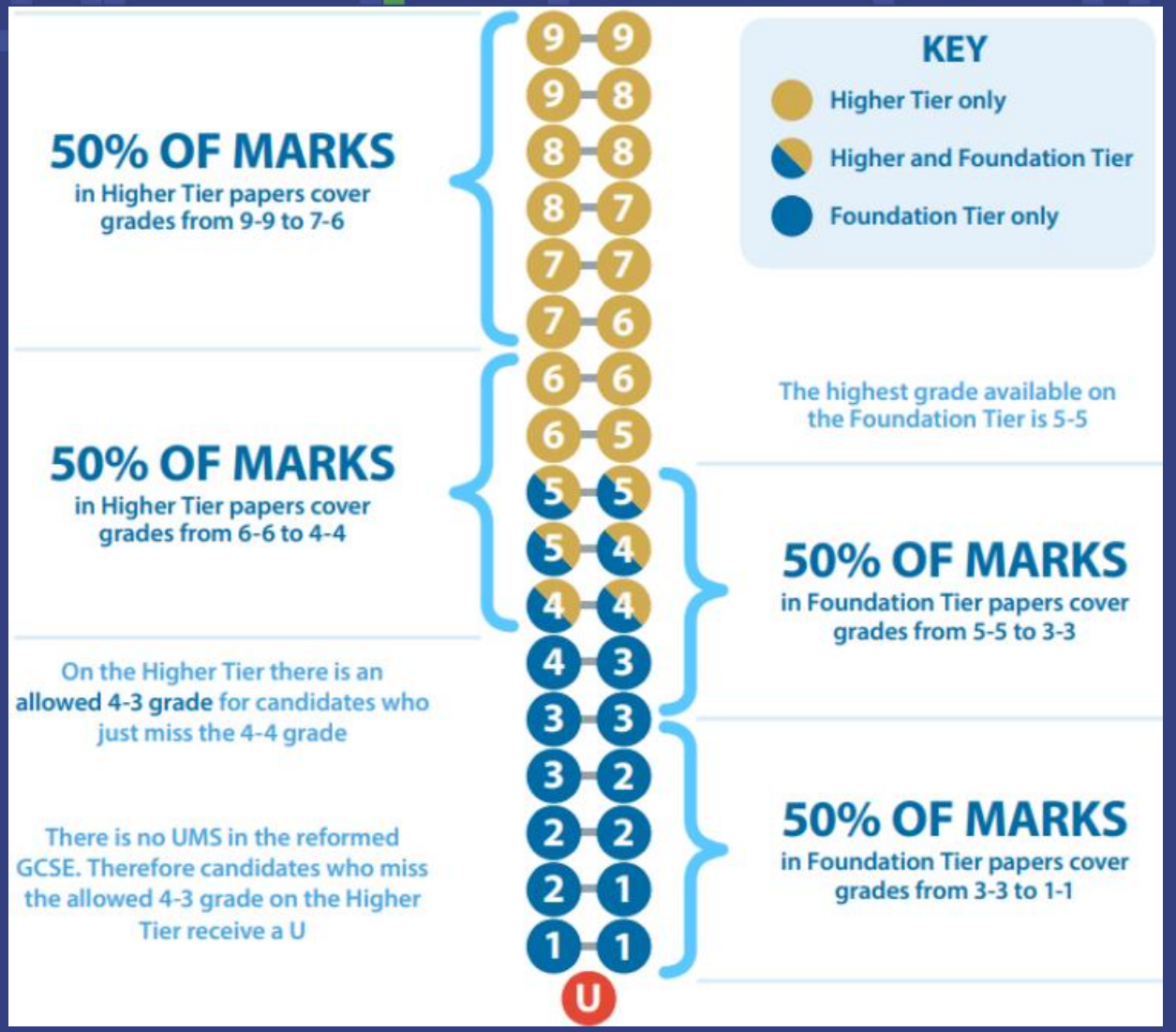
GCSE Combined Science - Tiers



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GCSE Combined Science - Tiers

Will my certificate show the tier I sat?

Certificates do not show the tier of entry; they only show the grade achieved.

Is it easier to get a 5-5 on Higher Tier?

Each tier contains 20% common questions. This is used by exam boards to align the standards between tiers. This ensures that it is not easier to get a 4-4 or 5-5 on one tier than another.

What is recommended?

Ofqual recommend that if a student is expected to get a 4-4 or 5-5, they should take the Foundation tier papers.

Which tier should I be entered for if I just achieve a 5-5 in my mock?

If you only just got enough marks for a 5-5, it is recommended that you should take Foundation tier papers. Students who are aiming for a 5-5 are able to access at least twice as many marks in the Foundation Tier papers.

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Science opportunities

Course	Peter Symonds	QMC	Alton College	Barton Peveril
Biology	6-6 or 6-5	6-6	6-6	6-6
Chemistry	7-6 or 6-6	6-6	6-6	6-6
Physics	7-6 or 6-6	6-6	6-6	6-6

These are the big three, but there are MANY more…

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Science opportunities

Course	College	Pre-requisite Grades
Medical Science	Barton Peveril Alton College	4-4 5-5
Environmental Science	Peter Symonds QMC	6-5 or 5-5 5-5*
Physical Education	Barton Peveril Alton College	4-4 (5*) 5-5
Electronics	QMC	6-6 (recommended)
Applied Human Biology	Peter Symonds	4-4
Health & Science (L2) Health & Nursing T-level	Alton College	3-3 5-5 or 5-4
Engineering (L3)	Alton College	4-4

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GCSE Science - tools

- Pens – black for exams (these are scanned)
- Pens, pens, pens! – bring spares to school

Maths skills in science:

- Calculator – 'Scientific' helps
- Students can access more marks with ease
- Pencil and rubber – plotting graphs
- Ruler – taking measurements in questions

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Perins Values – Science

P	Participation	• Bring everything you need to learn • Do what you can to take part and contribute to a lesson
E	Excellence	• Challenge yourself every lesson • If at first you don't succeed, try and try again
R	Respect	• Be silent for the teacher and other learners while they are speaking • Listen and act responsibly on any help offered
I	Independence	• Use the 'Brain – Book – Buddy – Boss' method to accomplish tasks • Regularly review classwork and read around the subject area at home
N	Nurture	• Offer help to other learners on tasks • Complete practical work in groups • Share equipment sensibly
S	Safe	• Do not eat or drink in a lab • Follow instructions given by the teacher • Tidy-up practical work in a timely manner

What effort looks like in science

Basics:

- On time
- Prepared to learn – book out, pen out, bags and coats in the bag store
- Full focus on the information presented
- Ask for clarity

PERINS Values:

- Recognised by achievement points
- Chat with your teacher

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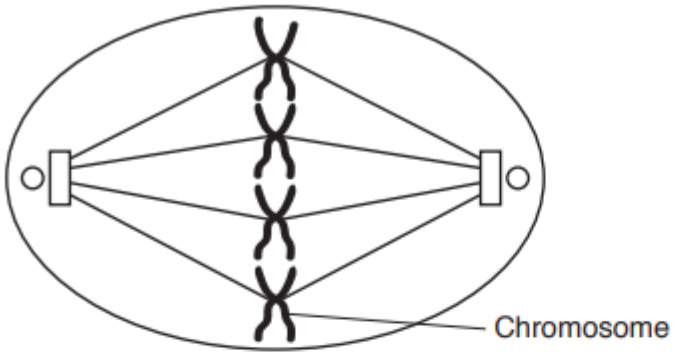
RECALL QUESTION

12 (a) The diagram shows a cell during one stage of **mitosis**.



(i) Describe **two** things that happen to the chromosomes in the next stage of mitosis.

(chromosomes) separate / split / divide / pulled apart ✓ (chromatids) move to opposite ends / by spindle fibres ✓	**2**	2x1.1	**WHERE A CANDIDATE USES A DIAGRAM LOOK FOR THE CORRECT IDEAS LABELLED ON THE DIAGRAM** **IGNORE** just by fibres **ALLOW AS AN EXTRA MARKING POINT** (two) **new** nuclei form / membrane forms around them / nuclear envelope forms around them ✓ **IGNORE** cell membrane splits **IGNORE** references to DNA replication **IGNORE** cytokinesis / cell splitting

.....

.....

.....

.... **[2]**

(ii) Chromosomes are made of DNA.

Describe the structure of DNA.

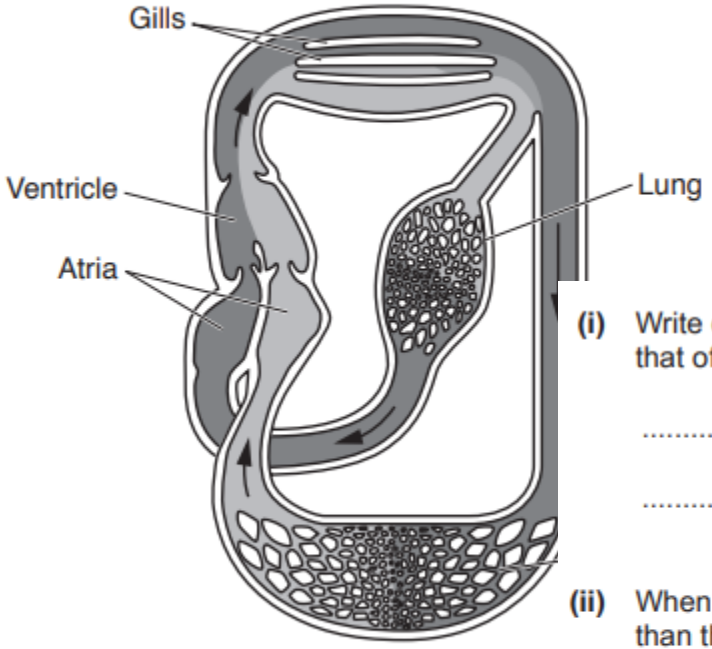
double helix ✓ polymer ✓			**ALLOW** polynucleotide ✓✓ **ALLOW AS EXTRA MARKING POINTS** contains (four) <u>bases</u> ✓ reference to ATCG ✓ (made up of) nucleotides ✓ contains sugar / deoxyribose / phosphate group ✓ **IGNORE** deoxyribonucleic acid

APPLY QUESTION

(b) Lungfish are fish that have both gills and a lung.

When in water, the blood flows through the gills. When on land, blood flow to the gills is stopped and the blood enters the lung instead.

The diagram shows the circulatory system of a lungfish.



The lungfish circulatory system is different t

Blood in the lungfish can flow through gills a

(i) Write down one **other** way the **structure** of the lungfish circulatory system is different to that of humans.

..... (heart has) three chambers / not four chambers ✓ .....
(heart has) one ventricle / not two ventricles ✓
only one artery leaving (heart) ✓
.... **[1]**

(ii) When lungfish and humans are on land, the human circulatory system is more efficient than that of lungfish.

Suggest why the human circ

(in humans) oxygenated and deoxygenated blood kept separate ✓

....

....

..... (so) more **oxygen** is carried around the body / more **oxygen** is supplied to the body cells ✓ **[2]**

PRACTICAL SKILLS

(b) The table shows his results.

Concentration of sugar solution (mol/dm^3)	Mass of potato chip		
	At		
0.0			
0.2			
0.4			
0.6			
0.8			
1.0			

Calculate the p

Record your an

(c) Plot a graph of the percentage change in mass against concentration of sugar solution and draw a line of best fit.

Use ideas about osmosis to explain the patterns in the results.

(chips) get bigger/gain mass when **water moves** in
OR
(chips) get smaller/loses mass when **water moves** out ✓

and **any two from:**

chip in low(er) concentration (of solution) **or** 0 (mol/dm^3) **or** 0.2 (mol/dm^3) the water potential inside (cells) is **less** ✓

(so) water moves in when the water potential inside (cells) is **less** ✓

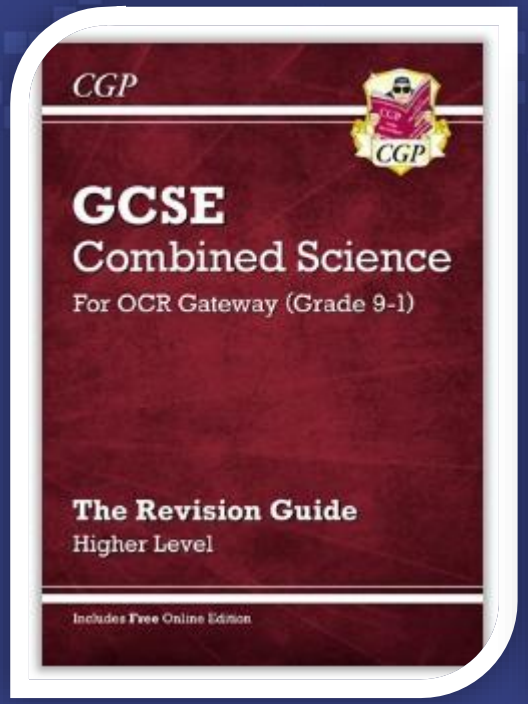
chip in high(er) concentration (of solution) **or** more than 0.2 mol/dm^3 the water potential inside (cells) is **greater** ✓

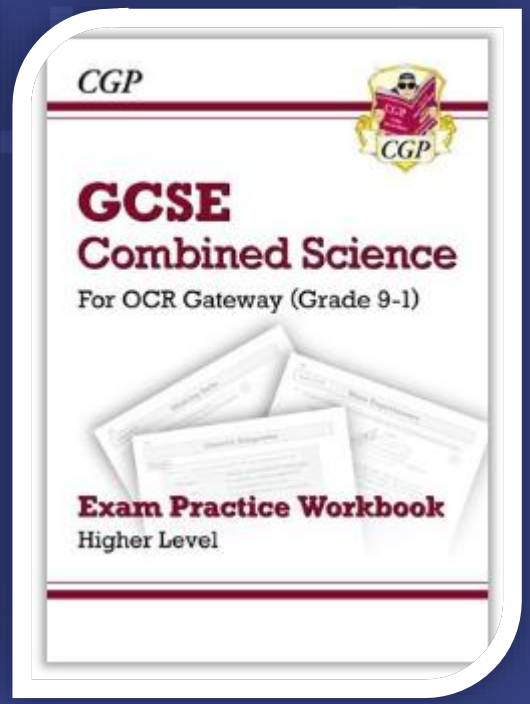
(so) water moves out when the water potential inside (cells) is **greater** ✓

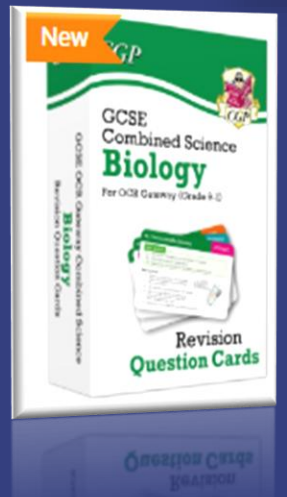
[3]

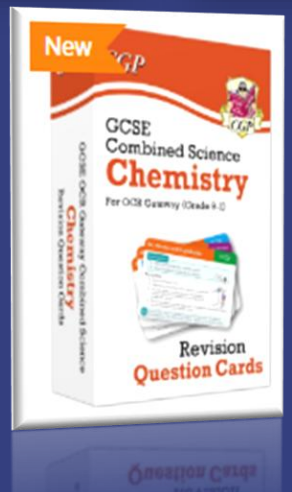
[4]

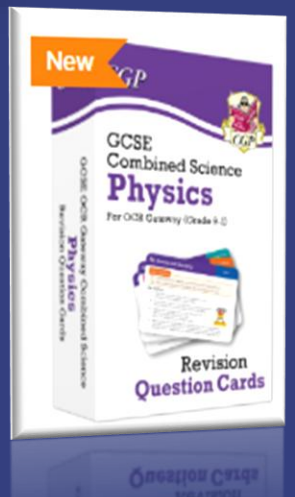
WHAT CAN YOU DO?











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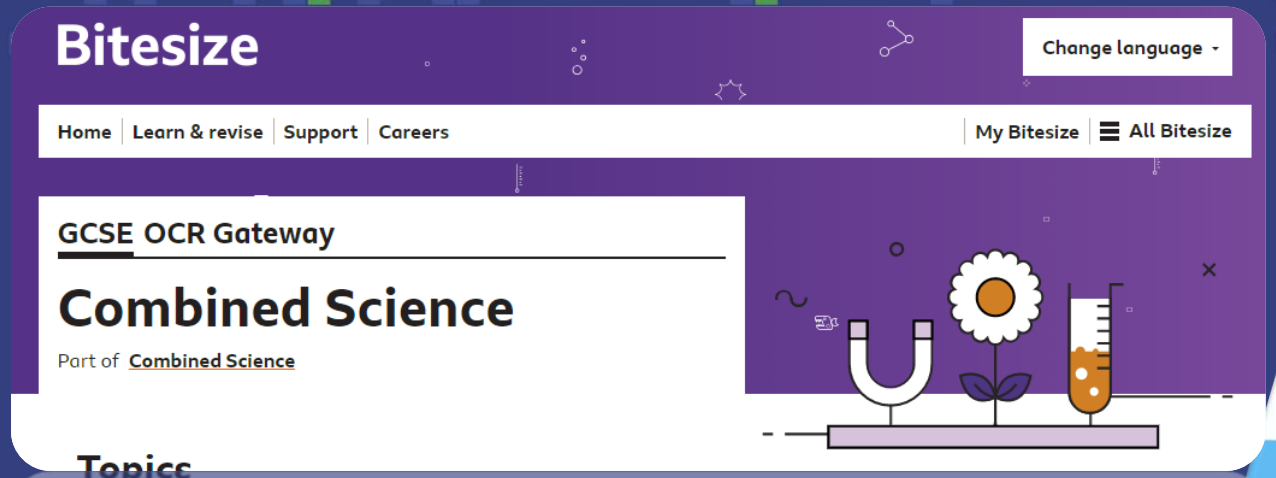
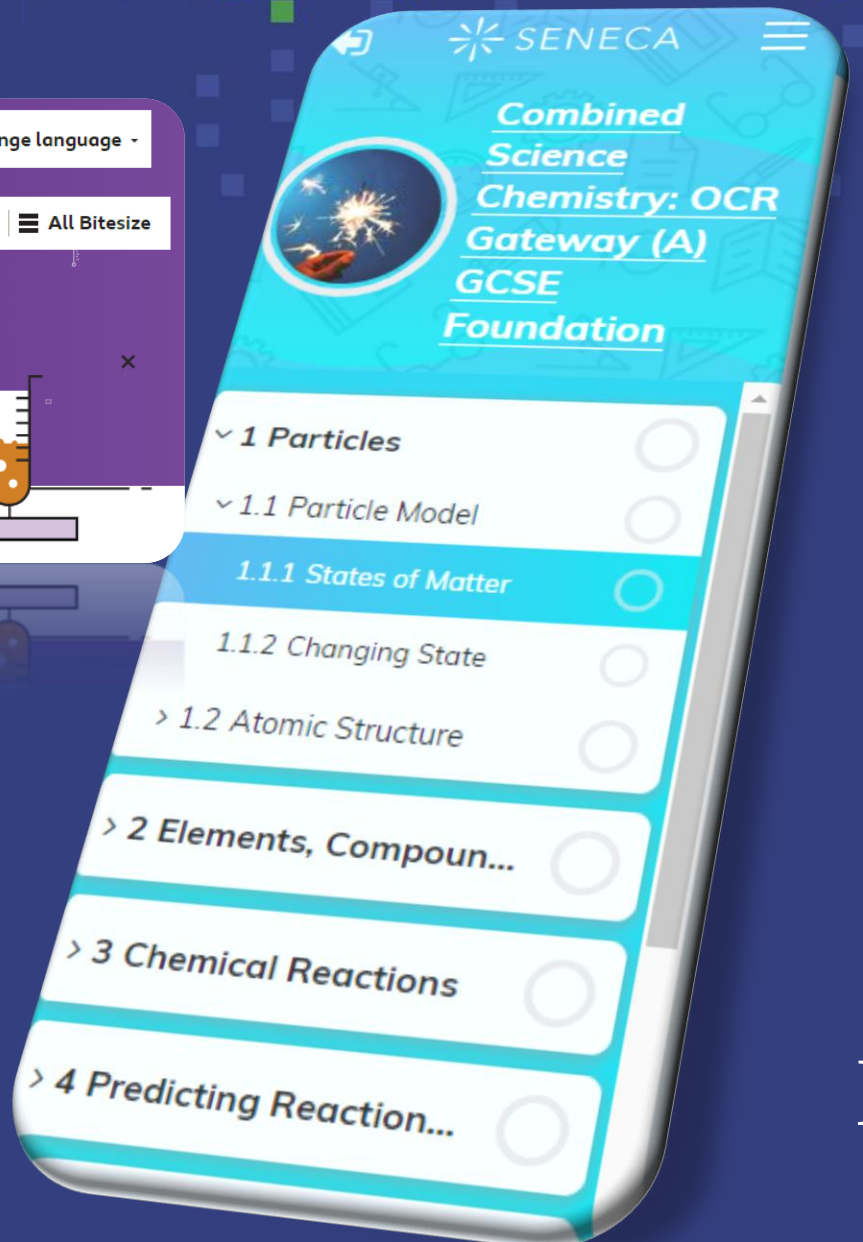
WHAT CAN YOU DO?



kerboodle



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How can you help at home?

- Look through your childs' exercise books with them
- What have they been studying?
- Are they correcting their own work & modelling answers?
- Are loose sheets stuck in? (some students struggle to complete this in class where teaching time is a premium)
- If possible, provide a quiet space for revision
- If possible, print out revision lists and past papers
- It's helpful to practice writing/typing answers
- Make sure they come to school with the right equipment

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