

Year 10 GCSE Information Evening

Monday 6th October
2025

1. What to expect in the GCSE years and
2. How parents and carers can support students to be successful
3. Practical advice from English, Maths and Science



The journey starts now ...



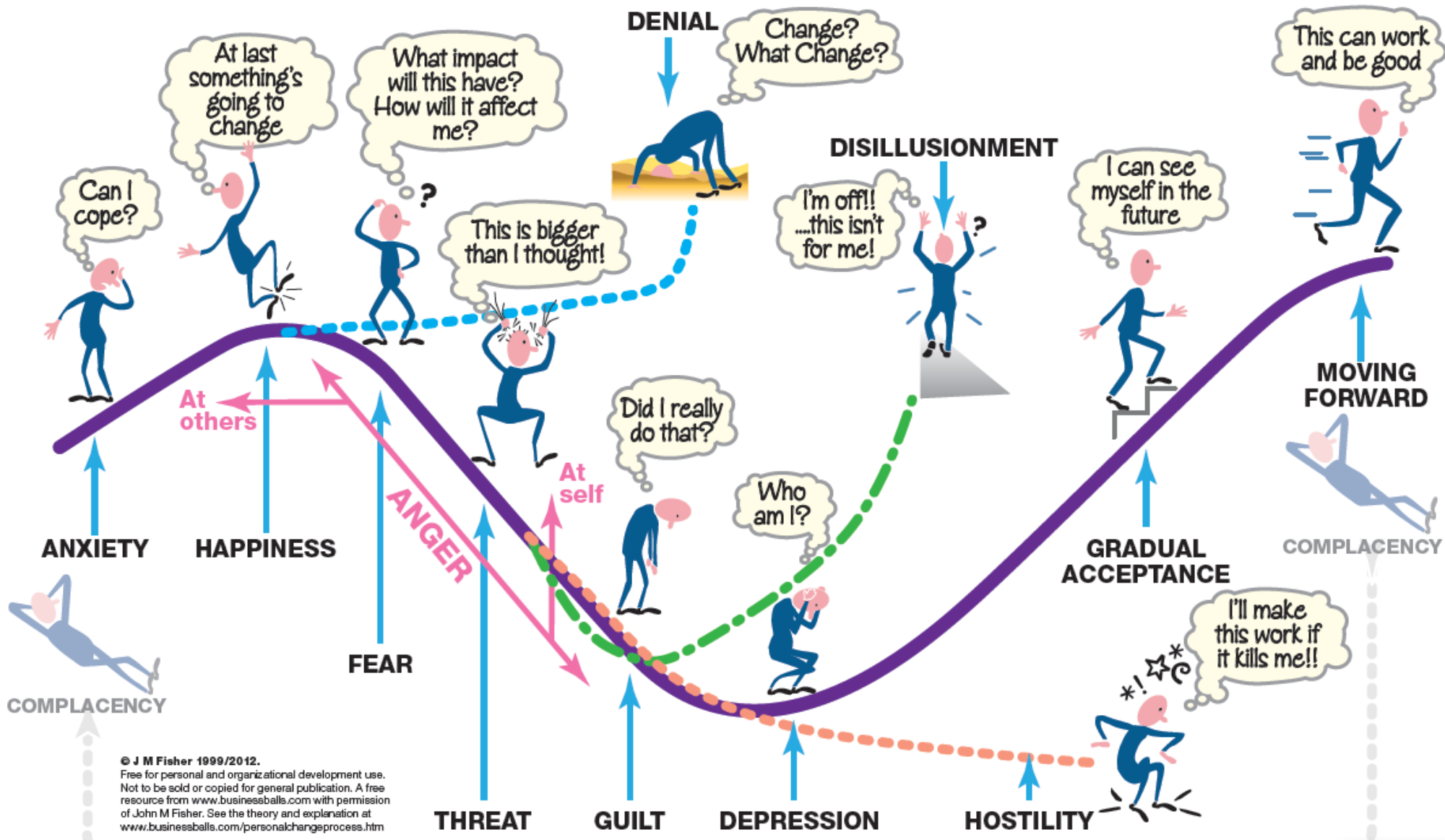
The journey will be emotional!

- KS4 = change and pressure
- Change brings on an emotional reaction.
- Understanding the emotional journey helps you support them



The Process of Transition - John Fisher, 2012

(Fisher's Personal Transition Curve)





What we will do.

We have a tried and tested routine around years 10 and 11 that we know works

- We will teach them and give them the resources they need.
 - We will monitor and check how well students are doing.
 - We will offer support for students who we think are falling behind.
 - We will keep in contact with you.
 - We will look out for the pastoral needs of our students.
- 

Who to contact ...

Pastoral support



Tutor team and Mrs Moscrop (first port of call – emails on website)



Pastoral support workers as necessary

Careers Advice and Guidance

- First port of contact is Mrs Coles (Careers lead)
- Support in different subjects – the Heads of Department
- <https://www.kingsschoolhove.org.uk/contactus.php>

Key Dates

Year 10 (2024 – 2025)

Monday 6th October 2025 – GCSE information evening

January – Interim reports issued (will give on track / not on track statements against target grades)

March – full written reports issued

20th April – Year 10 End of year Exams. 1 week after Easter holiday ends (GCSE exams – in the hall)

11th June – Year 10 Parents Evening (In person)

July - End of Year reports issued

Year 11 (2025 – 2026)

September - Year 11 Information and careers evening, college and sixth form applications

October – Year 11 Full reports issued

November – Mock 1

January – Year 11 Parents' Evening (in person)

February – Mock 2

May – Exams Start

June – Exams finish



Intervention – what it is ...

- Targeted support for students with gaps
- Not for most students
- Short term and focused on something specific
- Will usually take place during tutor or after school (Period 7)
- May be some now, but mostly put in place following Easter exams

Any questions please contact Head of Department using the contact us page

+

•

○

Non-Examination Assessment (Coursework!) Subjects

- Art
- Drama
- Music
- Media
- DT
- Food
- PE

The subjects vary between 100 – 30% Coursework (NEA)

- Check if they are studying one
- What are the deadlines? (might be next year)
- What are the requirements?



What have we learnt about
successful students?

Three key factors

Attitude

Attendance

Work

Having the right attitude



- Be positive
- Accept and learn from failure
- Do your best
- Keep going (resilience)
- One step at a time
- Ask for help



Practically – what can parents do ...

Keep repeating the key messages

- Encourage them not to give up
- Encourage them to focus on one thing at a time
- Help them to do the small steps
- Help them to not be paralysed by failure
- Help them find their motivation

Be calm(!) and consistent as much as possible.

They may also require your skills to help them be organised, know what to do next, not give up, solve small logistical issues.



Attendance – turn up!

90% sounds good ... but

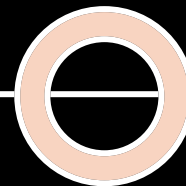
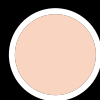
- Adds up to 4 weeks missed over a year
- Research suggests that 17 missed school days a year can equal 1 grade drop in achievement relative to their peers (DFES)
- Positively – improving attendance can increase their grades!

Do the work!

Classwork – don't waste the time with the teachers.

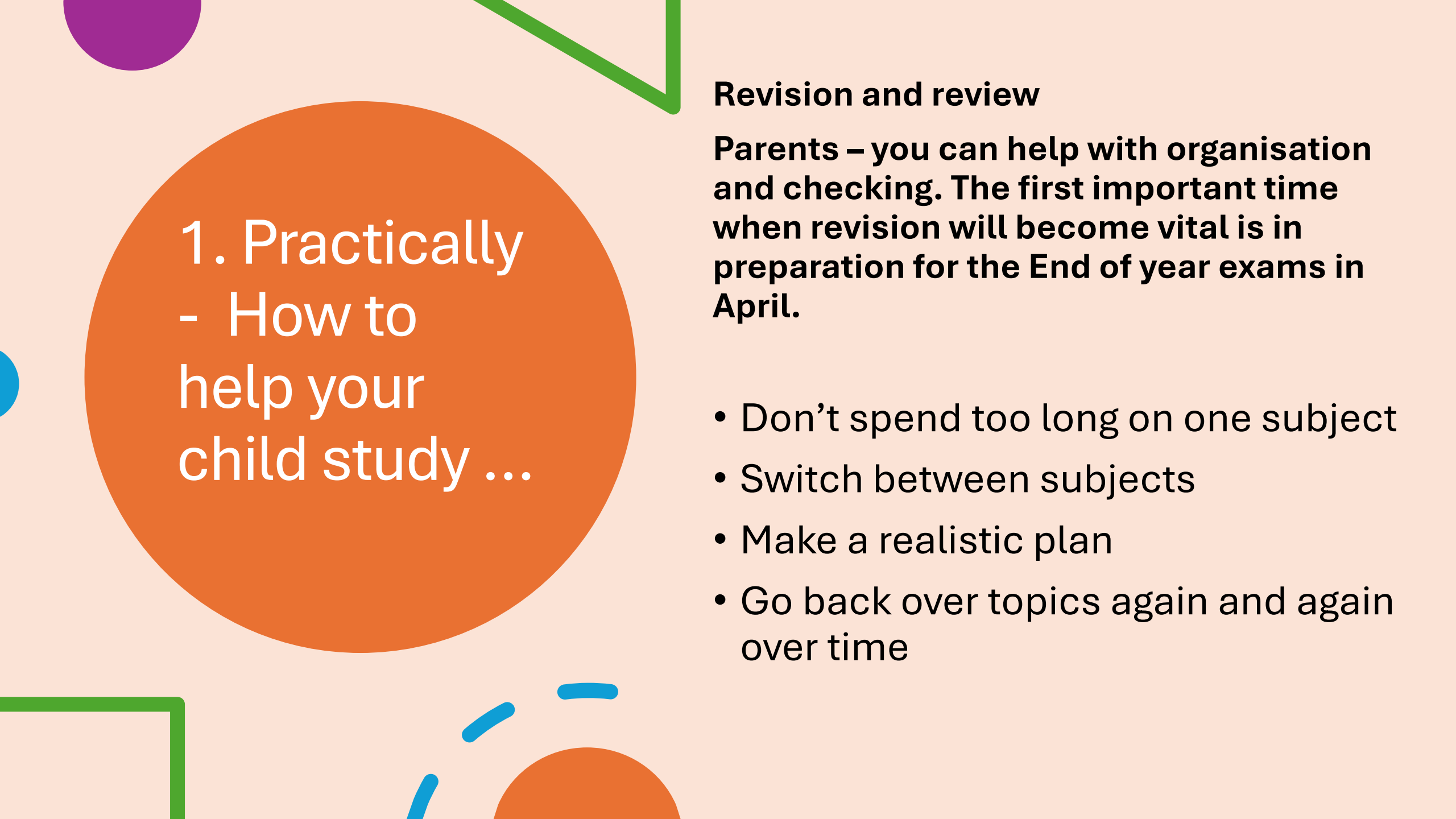
Homework – do it on time and do it fully.

Revision – they *could* start reviewing their work now.
They should DEFINITELY revise before the Easter
exams.



If they do the work
consistently from now,
and revise for their mocks,
and revise before the exams,
they will do well!





1. Practically - How to help your child study ...

Revision and review

Parents – you can help with organisation and checking. The first important time when revision will become vital is in preparation for the End of year exams in April.

- Don't spend too long on one subject
- Switch between subjects
- Make a realistic plan
- Go back over topics again and again over time

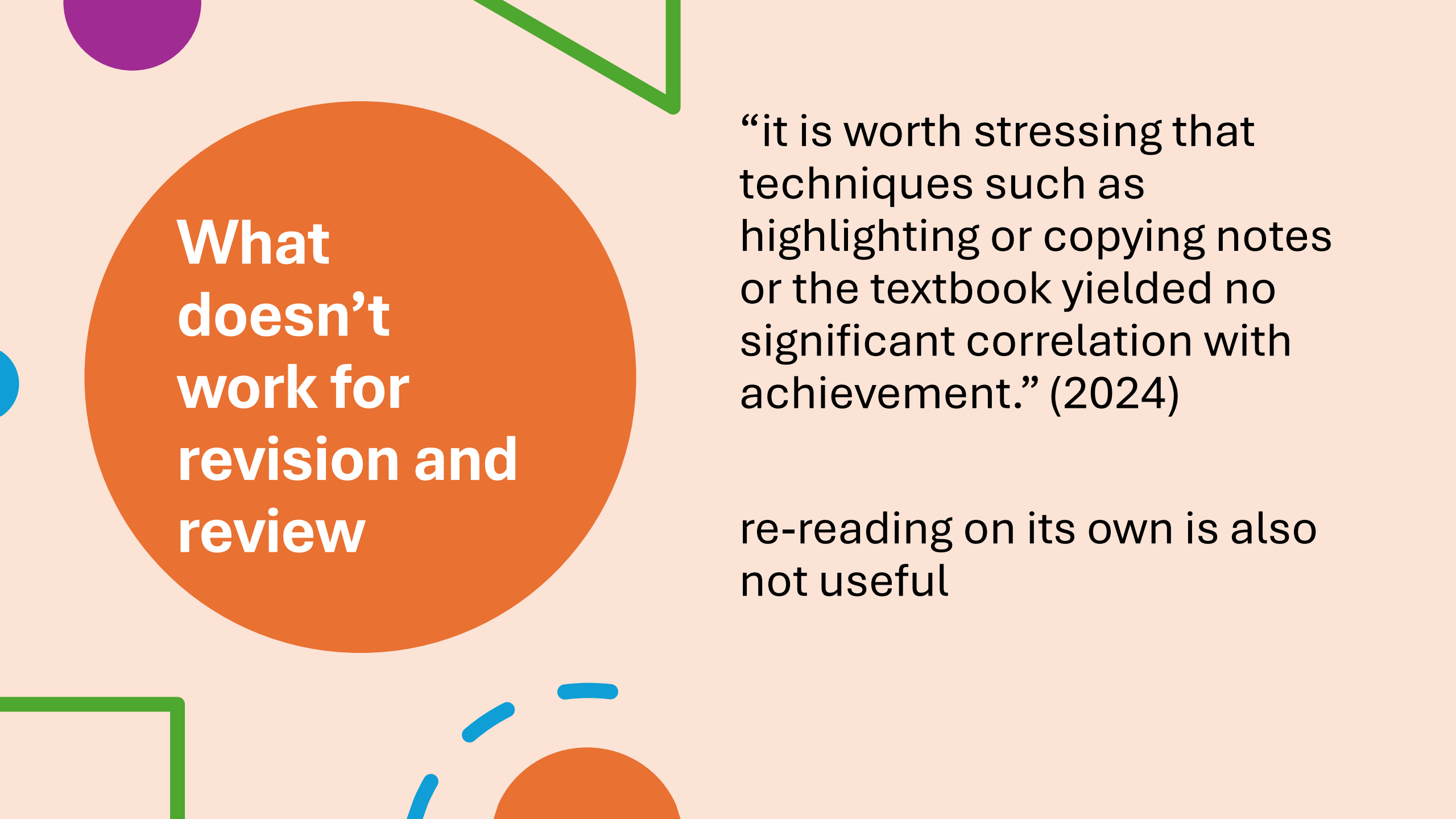
How do I make a revision timetable for my exams? - BBC Bitesize

WEEKLY REVISION PLANNER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TIME	SATURDAY	SUNDAY

WEEKLY REVISION PLANNER

TIME	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	TIME	SATURDAY	SUNDAY
8:30AM-4PM	SCHOOL	SCHOOL	SCHOOL	SCHOOL	SCHOOL	9AM-10AM	BREAKFAST/ SHOWER	BREAKFAST/ SHOWER
4PM-5PM	HOMEWORK	TV/ GAMING/ SOCIAL MEDIA	HOMEWORK	TV/ GAMING/ SOCIAL MEDIA	HOMEWORK	10AM-11AM	REVISION - ENGLISH	REVISION - SCIENCE
5PM-6PM	DINNER	DINNER	DINNER	DINNER	DINNER	11AM-1PM	SEEING FRIENDS/ LUNCH	SPORT/ LUNCH
6PM-7PM	REVISION - GEOGRAPHY	HOMEWORK	REVISION - HISTORY	REVISION - FRENCH	REVISION - SCIENCE	1PM-3PM	REVISION - MATHS	REVISION - FLASH CARDS
7PM-8PM	REVISION - MATHS	REVISION - ENGLISH	FREE TIME	HOMEWORK	FREE TIME	3PM-5PM	OUT WITH FAMILY	SPORT/ TV/ GAMING
8PM-9PM	FREE TIME/ SHOWER	FREE TIME/ SHOWER	FREE TIME/ SHOWER	FREE TIME/ SHOWER	FREE TIME/ SHOWER	6PM-8PM	DINNER/ FREE TIME	DINNER/ FREE TIME



What doesn't work for revision and review

“it is worth stressing that techniques such as highlighting or copying notes or the textbook yielded no significant correlation with achievement.” (2024)

re-reading on its own is also not useful

Videos — The Learning Scientists

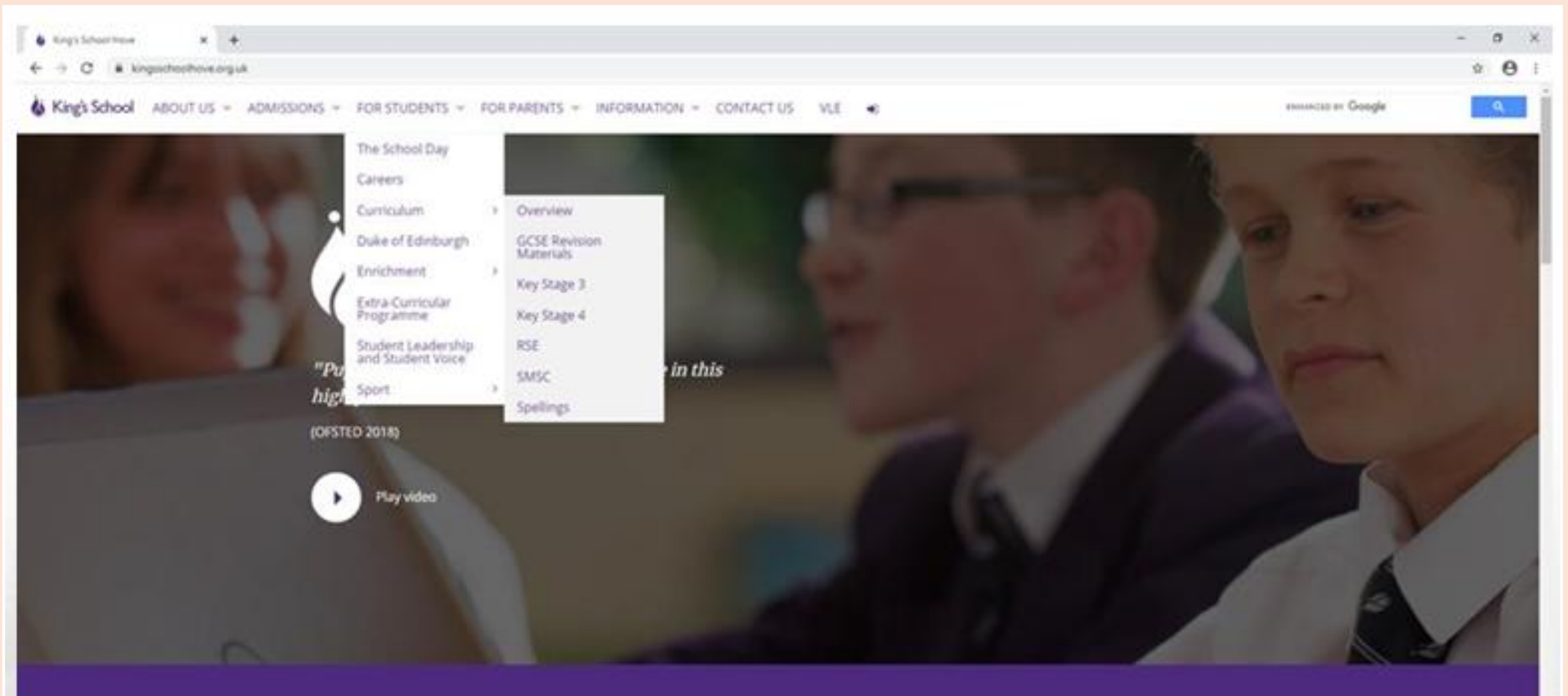


<https://www.learningscientists.org/>

If you're not sure how to support
with a subject



Get in contact with their subject
teacher!



Where you can find information on subjects ...

Curriculum Guides

KS4 Curriculum Guide - Year 10 Geography

Term 1 & 2

Paper 2: Urban Issues and Challenges



The first part of this topic is an introduction to urbanisation and megacities. The first term focuses on Mumbai as a megacity - growth, challenges and opportunities. The second term focuses on London as a global city - growth, challenges and opportunities. A fieldwork will be based on this unit.

Assessment: Students will be assessed with exam-style questions.

Key Words and Terms

Term 3 & 4

Paper 1: Physical Landscapes of The UK



In this unit we will be focusing on both coastal and river landscapes in the UK. We will study the processes occurring exploring the relationship that we have with these environments. Case studies will be used to solidify any topics in this unit.

Assessment: This will be in the form of exam style questions.

Term 5 & 6

Paper 1: Natural Hazards

Students will focus on natural hazards both globally and in the UK. A range of case studies are looked at including that these natural hazards have on people will be studied as well as responses to managing these hazards from

Assessment: Students will be assessed with exam-style questions.



Spellings and Definitions

Key terms and Spelling List - Year 10 Geography

Term 2: Urban Issues and Challenges

Key words

Brownfield site

Land that has been used, abandoned and now awaits some new use. Commonly found across urban areas, particularly in the inner city.

Dereliction

Abandoned buildings and wasteland.

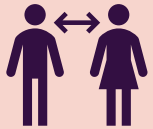
How can parents support



Motivation – next steps, discussions, prodding, key messages



Revision – know the process and the exam dates, monitor revision, get them to show you, help them organise, help them test



Support – recognise the emotional journey and help them navigate it

- Your involvement as parents will make a difference.
 - All of our pupils are motivated to some degree but some might be lost in “emotional transition”.
 - You need to either use
 - Light touch accountability - take an interest, talk it through, celebrate success & talk through frustrations.
 - Close supervision – Set short term goals, monitor the achievement of these, praise achievements & solve problems.
- Repeat the messages we give in school re attendance, revision, failure etc.
- Keeping communication open is key. Talk about it. Plan for it.
 - We are here to help – please keep in touch

Head of English

Mrs Butcher



GCSEs – What you need to know

- Students at King's will study the **Edexcel English Language and English Literature** courses to end up with 2 GCSEs for English
- There are no tiers of entry- all sit the same exam
- Each student will sit 2 English Language papers and 2 English Literature papers
- A set of core skills are tested, including analysing the impact of language and structure, evaluation and comparison. A thorough application of context in Literature is also required.
- There is a Spoken Language Component, which is assessed but does not count towards their final grade in either Language or Literature. These will be carried out and filmed at the end of Year 10

English Language



Paper 1

Fiction and Imaginative Writing

Overview of assessment

**40% of the
total GCSE**

- Section A – Reading: 4 questions on an unseen 19th-century fiction extract.
- Section B – Writing: a choice of two writing tasks. The tasks are linked by a theme to the reading extract.
- The total number of marks available is 64.
- Assessment duration 1 hour and 45 minutes

Paper 2

Non-fiction and Transactional Writing

Overview of assessment

**60% of the
total GCSE**

- Section A – Reading: 7 questions on two thematically linked, unseen non-fiction extracts.
- Section B – Writing: a choice of two writing tasks. The tasks are linked by a theme to the reading extracts.
- The total number of marks available is 96.
- Assessment duration: 2 hours and 5 minutes

English Literature



Paper 1

Shakespeare and Post-1914 Literature

Overview of assessment

50% of the
total GCSE

- Section A – Shakespeare: a two-part question, with the first task focused on an extract of approximately 30 lines. The second task is focused on how a theme reflected in the extract is explored elsewhere in the play.
- Section B – Post-1914 British play or novel: ONE essay question.
- The total number of marks available is 80.
- Assessment duration: 1 hour and 45 minutes.
- Closed book (texts are not allowed in the examination).

Paper 2

19th-century Novel and Poetry since 1789

Overview of assessment

50% of the
total GCSE

- Section A – 19th-century novel: a two part question, with the first part focussed on an extract of approximately 400 words. The second part is an essay question exploring the whole text.
- Section B – Part 1: ONE question comparing a named poem from the Pearson Poetry Anthology collection to another poem from that collection. The named poem will be shown in the question paper. Part 2: ONE question comparing two unseen contemporary poems.
- The total number of marks available is 80.
- Assessment duration: 2 hours and 15 minutes.
- Closed book (texts are not allowed in the examination).



Core Texts Studied

- Macbeth: Shakespeare- Year 10
- Poetry from the Edexcel Anthology-Conflict cluster only- Year 10/11
- An Inspector Calls: J. B. Priestly- Year 10
- A Christmas Carol: Charles Dickens- Year 11

20 minute tasks

1. Summarise each of the 5 acts of Macbeth into 5 bullet points
2. Select 2 characters from Macbeth. First list as many links between them as you can, then list as many differences as you can
3. How many references do characters in An Inspector Calls make to real world events of the time. Can you list them?
4. Plan a 5-part narrative about an escape. It should have a clear setting and 5 key plot points. Then write the opening and closing line.
5. Around a sketch of Sheila Birling, write quotations which describe her/show her attitude at the start of the play in one colour, and then those at the end in another colour.
6. Plan a response, with the quotations you'd use to this question: How does Shakespeare explore the theme of madness in Macbeth?
7. Summarise the main idea presented in each of the acts of Macbeth in no more than two sentences
8. Briefly research the political views of JB Priestley and summarise how they are relevant to An Inspector Calls
9. Draw a sketch of each of the following: Macbeth, Lady Macbeth, Macduff and write down quotations.
10. List the key features of these text types: Guide, Letter, Article, Speech
11. List as many language techniques (eg powerful verb) as you can. Do the same with structural techniques.
12. Commit to memorising the Inspector's final speech. Try to recite it to a family member without looking.

To Succeed in English

- Students need the confidence to express their own ideas and interpretations about texts, supporting these ideas with carefully selected evidence and linking in context.
- It is **vital**, therefore, that they know their texts really thoroughly.

Research to develop confidence in the key **contexts** of the texts- Jacobean England, Victorian England- realise that texts are a product of their time

Watch the film interpretations to help with engagement.

Go on the Teams folder to access Department study guides and revision activities

Here's what you can do at home: Focus on the **knowledge**

Memorise the plotlines of the core texts! This is an absolute starting point. Try **summarising** each chapter/act in no more than 10 words.

Buy the **study guides**- there are a huge range out there.

Use **post-it notes, mind maps, flip notes** to learn key quotations and put them up in bedrooms/around the house.

There are a plethora of **online resources/studyguides**- Sparknotes, BBC Bitesize, Youtube lessons

2IC SCIENCE

Dr Wieland

Key information

- Set 1 and 2 are Triple Science classes in Year 11
- Set 3-6 are Combined Science classes in Year 11
- After Easter there will be end of year exams (paper 1 combined science) and sets will be amended based on the results
- The exam board is AQA
- There are two tiers of entry – higher and foundation
- Tier of entry will be finalised after the second mock in Y11 (February)
- Every student will sit 6 papers in total. The combined science papers are 75 mins long and the triple science papers are 105 mins long.

Structure of science exams

Questions increase in difficulty as you progress through the paper

A mixture of question styles:

- Multiple choice
- Structured short answer
- Mathematical
- Extended response (6 marks)

Understanding command words is essential – describe, explain, evaluate etc

Examination information – Combined (Trilogy)

Science

	Biology paper 1	Biology paper 2	Chemistry paper 1	Chemistry paper 2	Physics paper 1	Physics paper 2
Topics tested	• Cell biology • Organisation • Infection & response • Bioenergetics	• Homeostasis & response • Inheritance • Variation & evolution • Ecology	• Atomic structure & the periodic table • Bonding • Structure & properties of matter • Quantitative chemistry • Chemical changes • Energy changes	• The rate and extent to chemical change • Organic chemistry • Chemical analysis • Chemistry and the atmosphere • Using resources	• Energy • Electricity • Particle model of matter • Atomic structure	• Forces • Waves • Magnetism & electromagnetism
No. of marks	70	70	70	70	70	70
% of GCSE	16.7	16.7	16.7	16.7	16.7	16.7
	ALL EXAMS ARE 1 HOUR & 15 MINUTES LONG					

- All three sciences count equally. Two overall grades awarded.
- No grades awarded for individual sciences.

Examination information - Triple Science

	Biology paper 1	Biology paper 2	Chemistry paper 1	Chemistry paper 2	Physics paper 1	Physics paper 2
Topics tested	• Cell biology • Organisation • Infection & response • Bioenergetics	• Homeostasis & response • Inheritance • Variation & evolution • Ecology	• Atomic structure & the periodic table • Bonding • Structure & properties of matter • Quantitative chemistry • Chemical changes • Energy changes	• The rate and extent to chemical change • Organic chemistry • Chemical analysis • Chemistry and the atmosphere • Using resources	• Energy • Electricity • Particle model of matter • Atomic structure	• Forces • Waves • Magnetism & electromagnetism • Space physics
No. of marks	100	100	100	100	100	100
% of GCSE	50	50	50	50	50	50
	ALL EXAMS ARE 1 HOUR & 45 MINUTES LONG					

- Each science is separate from the others
- Three individual grades awarded.

Physics equation sheets

AQA

Physics Equations Sheet GCSE Physics (8463) FOR USE IN JUNE 2025 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 = mass $\times$ gravitational field strength $\times$ height	$E_p = m g h$
change in thermal energy = mass $\times$ specific heat capacity $\times$ temperature change	$\Delta E = m c \Delta \theta$
power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
charge flow = current $\times$ time	$Q = I t$
potential difference = current $\times$ resistance	$V = I R$
power = potential difference $\times$ current	$P = V I$
power = $(\text{current})^2 \times \text{resistance}$	$P = I^2 R$
energy transferred = power $\times$ time	$E = P t$
energy transferred = charge flow $\times$ potential difference	$E = Q V$
density = $\frac{\text{mass}}{\text{volume}}$	$\rho = \frac{m}{V}$

AQA

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

FOR USE IN JUNE 2025 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 = mass $\times$ gravitational field strength $\times$ height	$E_p = m g h$
change in thermal energy = mass $\times$ specific heat capacity $\times$ temperature change	$\Delta E = m c \Delta \theta$
power = $\frac{\text{energy transferred}}{\text{time}}$	$P = \frac{E}{t}$
power = $\frac{\text{work done}}{\text{time}}$	$P = \frac{W}{t}$
efficiency = $\frac{\text{useful output energy transfer}}{\text{total input energy transfer}}$	
efficiency = $\frac{\text{useful power output}}{\text{total power input}}$	
charge flow = current $\times$ time	$Q = I t$
potential difference = current $\times$ resistance	$V = I R$
power = potential difference $\times$ current	$P = V I$
power = $(\text{current})^2 \times \text{resistance}$	$P = I^2 R$
energy transferred = power $\times$ time	$E = P t$

To Succeed in Science

Students need to:

- Ask lots of questions and be prepared to mistakes – science isn't easy!
- Start revision early – there is a lot of content to revise and little and often is the best way
- Learn the steps involved in the required practicals and be able to apply practical skills to new situations
- Learn keywords and definitions
- Ensure they complete all homework (Seneca Learning and exam questions)
- Use their transferable maths skills and be able to apply them to science questions
- Complete past papers in timed conditions and assess using the mark schemes
- Attend after school / lunchtime revision sessions

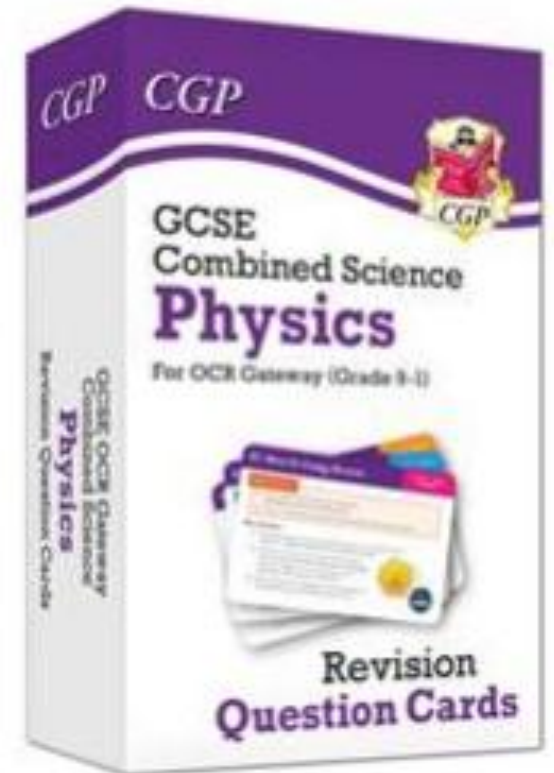
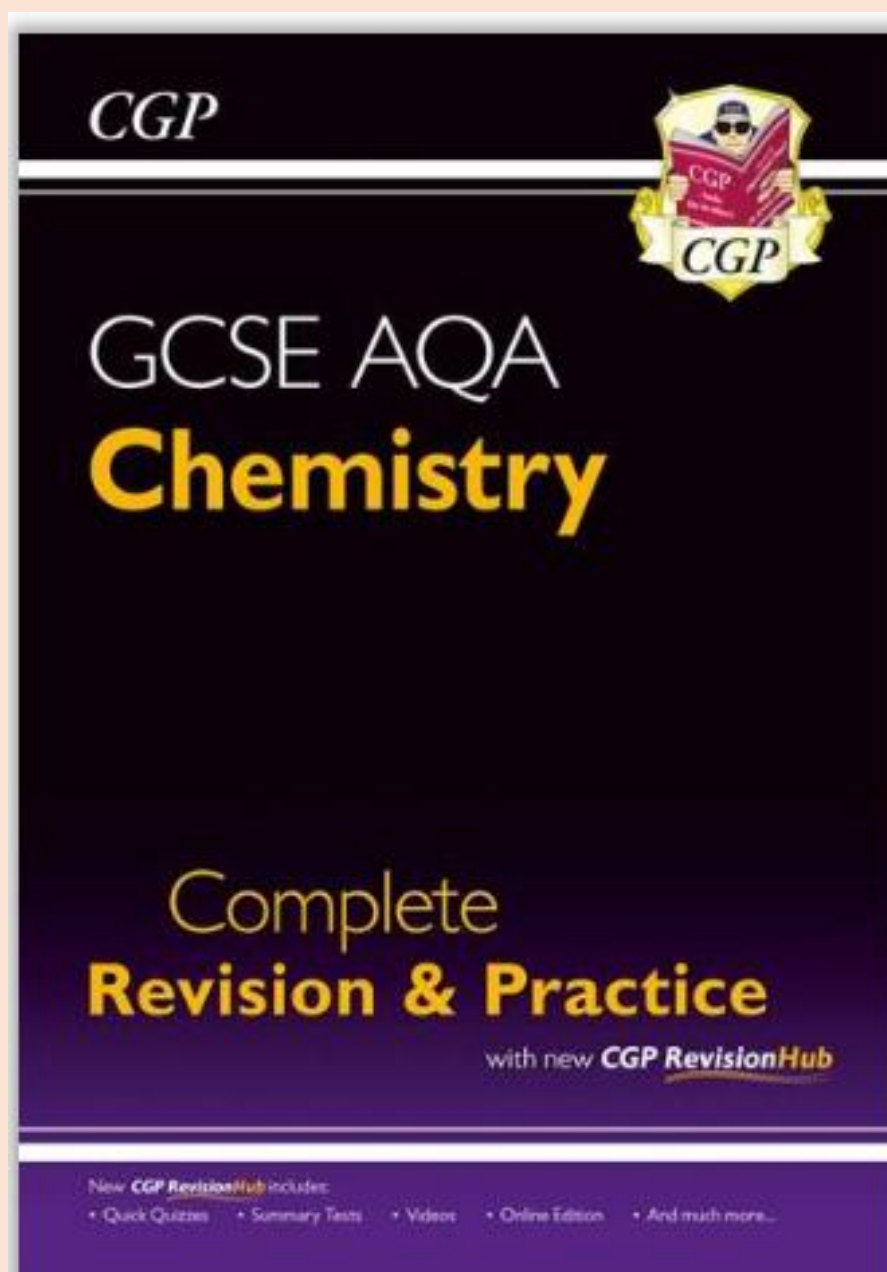
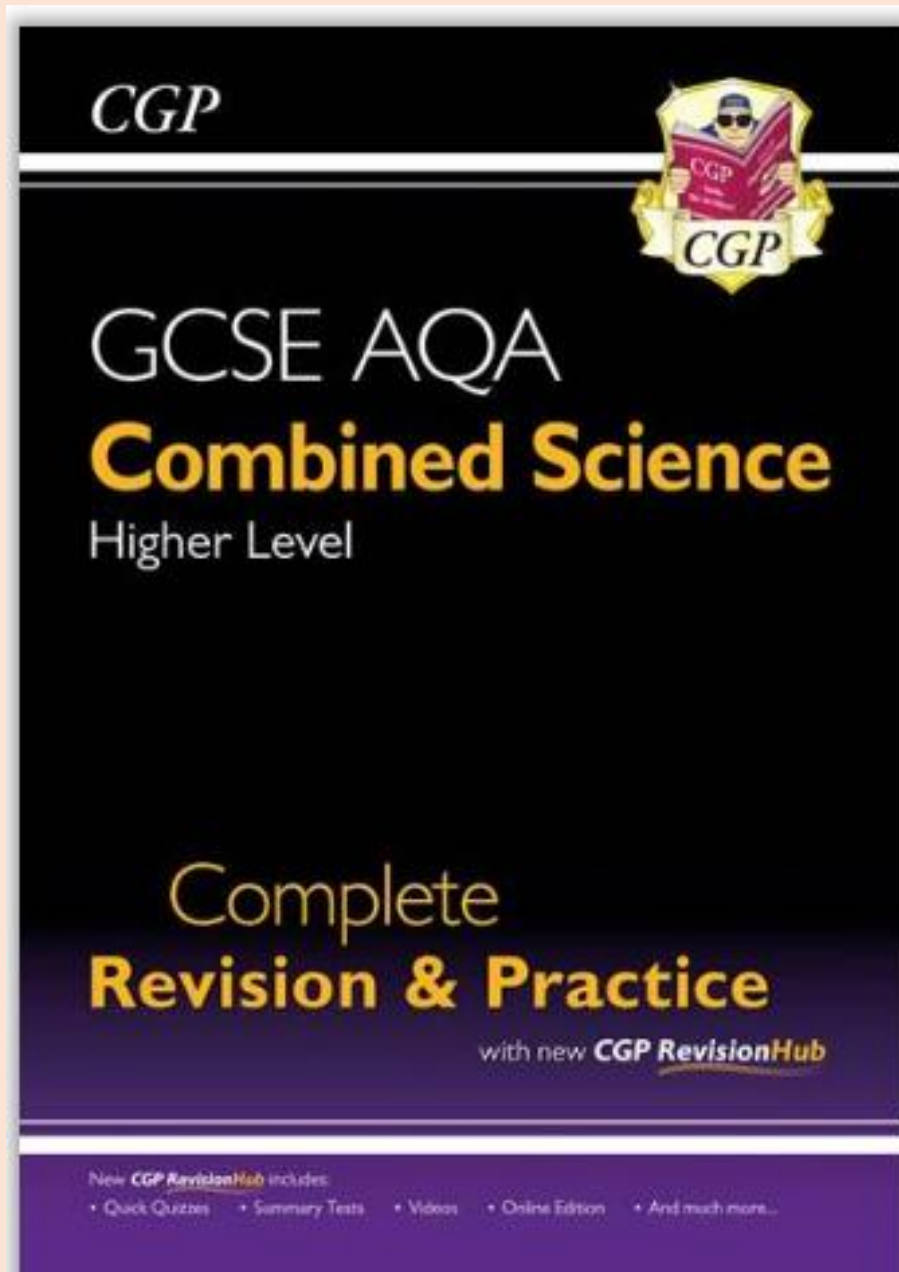
Revision suggestions

Flash cards
Mind maps
Revision
guides CGP
Exam questions
Cognito
BBC Bitesize
Seneca
Past papers (AQA website)
Knowledge
organisers

You Tube – Free Science Lessons and various other good revision videos

CLASS EXERCISE BOOKS!

CGP guides and flash cards



Mathematics at King's School



GCSEs – What you need to know

Teaching from 2015, Tested from 2017:

- Students at Kings will study the **Edexcel** maths course (**1MA1**)
- Mathematics will remain split between higher (grades 5-9) and foundation (grades 1 – 5)
- Each student will now sit three 90-minute exams.
- (1 Non Calc, 2 Calc)
- Students **will** be given a formulae sheet for the GCSE. This is part of the post-Covid support from the exam board.
The final year for this support is June 2027
- Harder topics will be introduced into the higher and foundation exams.

Area and volume

a and b are the lengths of the parallel sides
or perpendicular separation:

$$\text{Area of a trapezium} = \frac{1}{2} (a + b) h$$

Volume of a prism = area of cross section $\times$ length

where r is the radius and d is the diameter:

$$\text{Circumference of a circle} = 2\pi r = \pi d$$

$$\text{Area of a circle} = \pi r^2$$

Quadratic formula

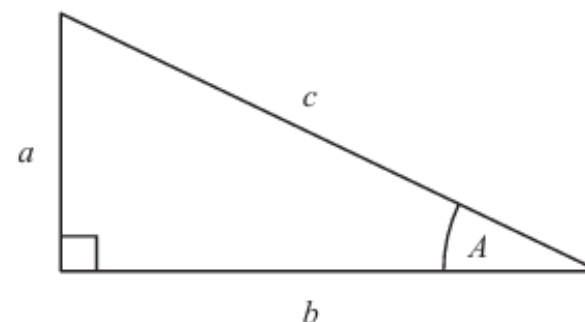
The solution of $ax^2 + bx + c = 0$

where $a \neq 0$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$



'Pythagoras' Theorem and Trigonometry

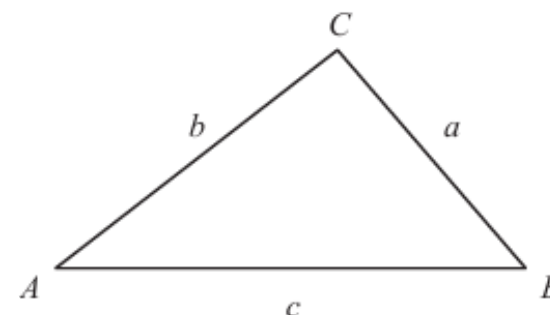


In any right-angled triangle where a , b and c are the length of the sides and c is the hypotenuse:

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

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

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



In any triangle ABC where a , b and c are the length of the sides:

$$\text{sine rule: } \frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$\text{cosine rule: } a^2 = b^2 + c^2 - 2bc \cos A$$

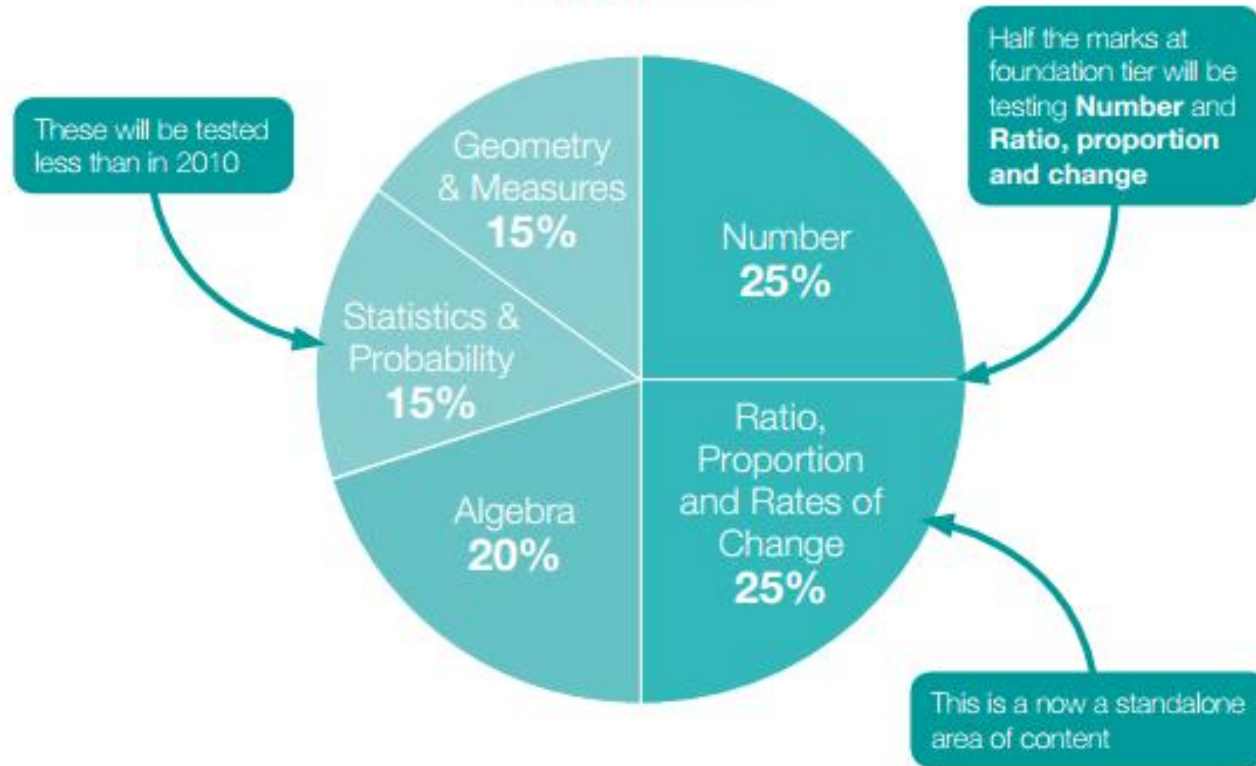
$$\text{Area of triangle} = \frac{1}{2} a b \sin C$$

Foundation Content

50 % of the foundation examined content is grade 4 and 5

50% is grade 1-3

Foundation

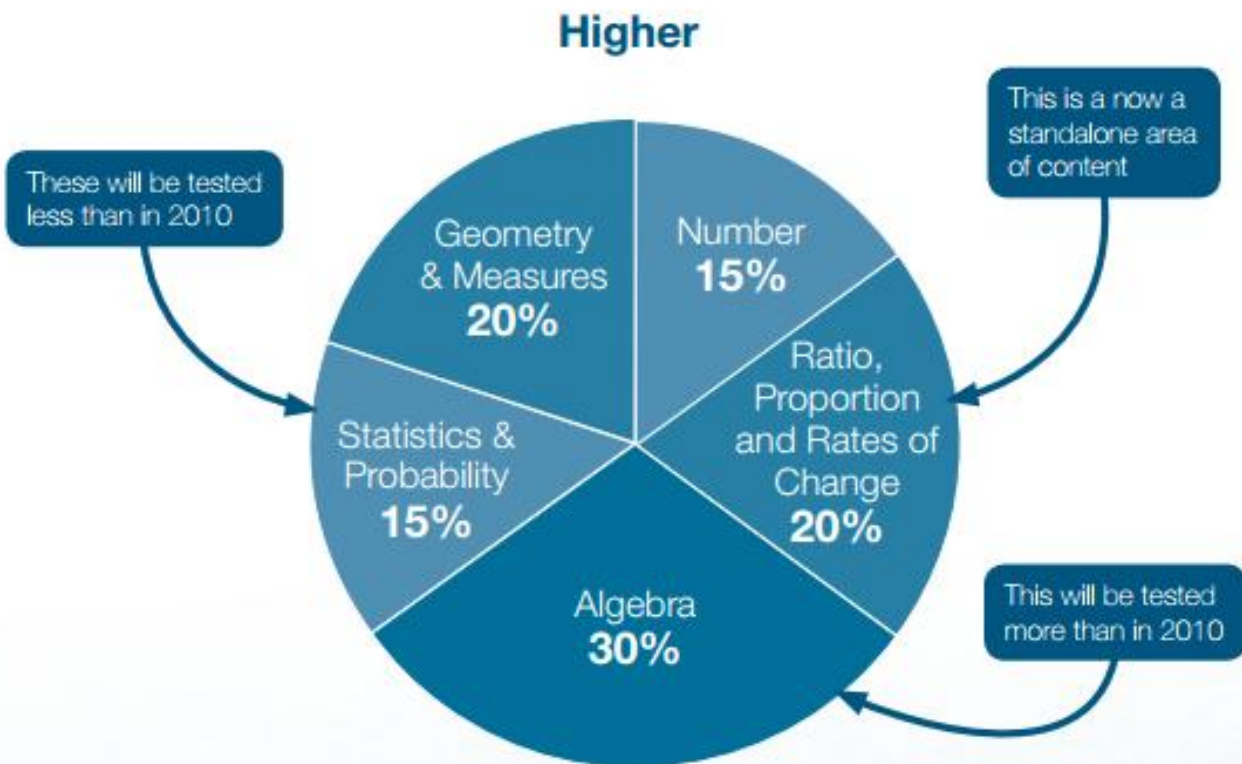


Topics new to Foundation tier (previously Higher tier only in 2010)

- Index laws: zero and negative powers (numeric and algebraic)
- Standard form
- Compound interest and reverse percentages
- Direct and indirect proportion (numeric and algebraic)
- Expand the product of two linear expressions
- Factorise quadratic expressions in the form $x^2 + bx + c$
- Solve linear/linear simultaneous equations
- Solve quadratic equations by factorisation
- Plot cubic and reciprocal graphs, recognise quadratic and cubic graphs
- Trigonometric ratios in 2D right-angled triangles
- Fractional scale enlargements in transformations
- Lengths of arcs and areas of sectors of circles
- Mensuration problems
- Vectors (**except** geometric problems/proofs)
- Density
- Tree diagrams

Higher Content

50 % of the higher examined content is grade 7 - 9
50% is grade 5 & 6



Topics new to Higher tier

- Expand the products of more than two binomials
- Interpret the reverse process as the 'inverse function'; interpret the succession of two functions as a 'composite function' (using formal function notation)
- Deduce turning points by completing the square
- Calculate or estimate gradients of graphs and areas under graphs, and interpret results in real-life cases (**not** including calculus)
- Simple geometric progressions including surds, and other sequences
- Deduce expressions to calculate the n th term of quadratic sequences
- Calculate and interpret conditional probabilities through Venn diagrams

Setting at KS4

Set 1 & 2

Mr Morson and Ms Wilson

- Completing Higher GCSE.
- Mixed ability groups.
- One hour of additional learning each week on Level 2 number and measure. This leads to an additional GCSE. (Mr Morson has emailed separately around this qualification)
- Students cannot currently be placed in 10M1 or 2 unless they are studying both courses.

Set 3 & 4

Ms Catron & Miss Furr

- Completing Higher GCSE.
- Streamed sets (Set 3 completes more challenging content relative to set 4)

Set 5 & 6

Mr Knowles & Mrs Moscrop

- Completing Foundation GCSE.
- Can achieve up to a grade 5 GCSE (equivalent to a low B grade/high C grade in the old system)
- Mixed ability groups
- Support for students that struggle through Level 1 qualification in year 11

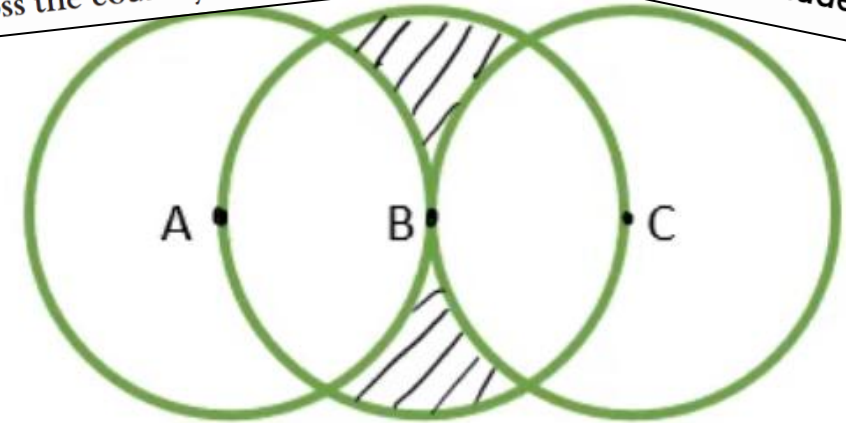
Sets have been decided by looking at averages across the academic year, end of year exam results, students prior data (SAT's) as well as teacher knowledge. We have lots of experience in identifying the correct set for students.

Preparing for the challenge questions

- New specification has more focus on the A03 topics. These are what we might call wordy questions or questions that involve multiple topics.
- Students are exposed to these types of questions regularly in class and as part of their homework and learn how to gain marks for the trickiest of questions.

'Impossible' question on Maths GCSE exam stumps 16-year-olds across the country

Can you answer this math question that stumped GCSE students?



$AB=BC=4$, Find shaded region

In a shop, a TV has a normal price of £500
The shop has a sale.

On Monday, the normal price of the TV is reduced by $\frac{1}{10}$ to give the sale price.

On Tuesday, the sale price of the TV is reduced by 20%

Chris wants to buy the TV.
He has £400 to spend on the TV.

Does Chris have enough money to buy the TV on Tuesday?
You must show how you get your answer.

Schemes of work & learning

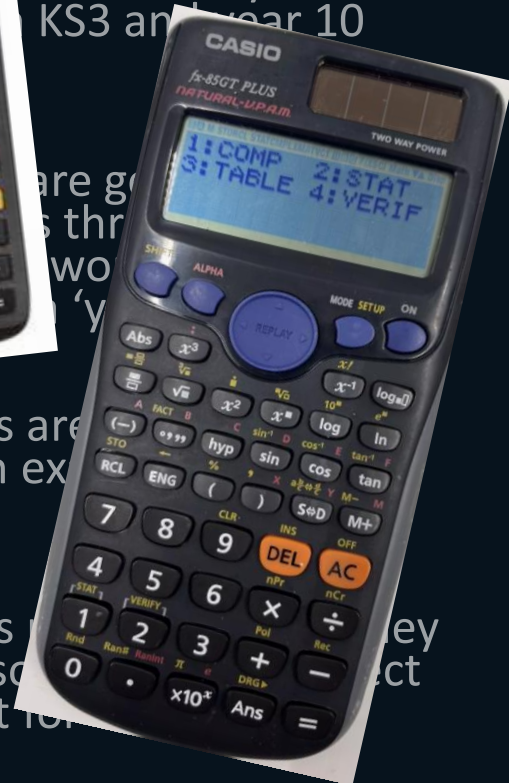
Mathematics

of work for year 11
KS3 and year 10

are g
s thr
two
'y

- Students are
copy down ex
notes.

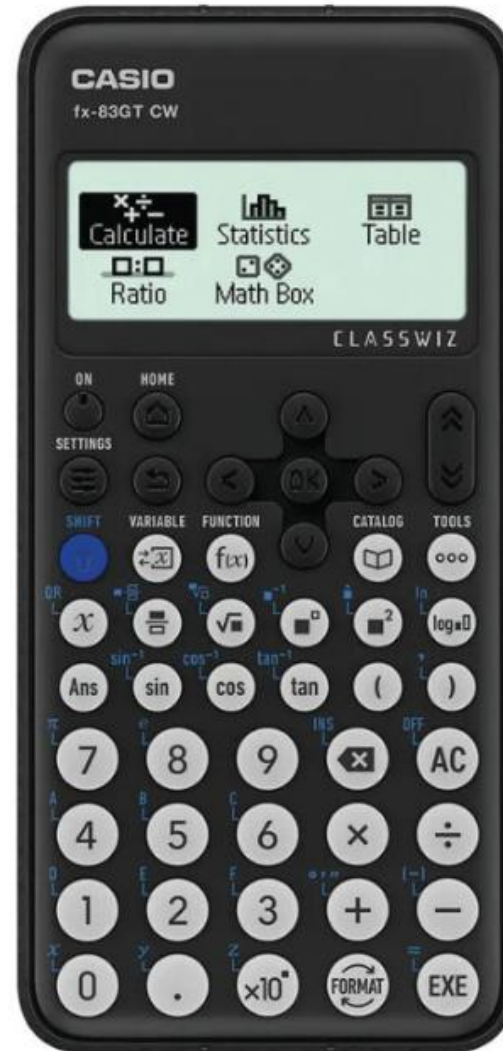
- Students
attend less
equipment for



Casio FX-83GTCW

≈£12

Updated version of the previous Casio that most supermarkets sell. Good for foundation and higher



CASIO FX-991EX

≈£25

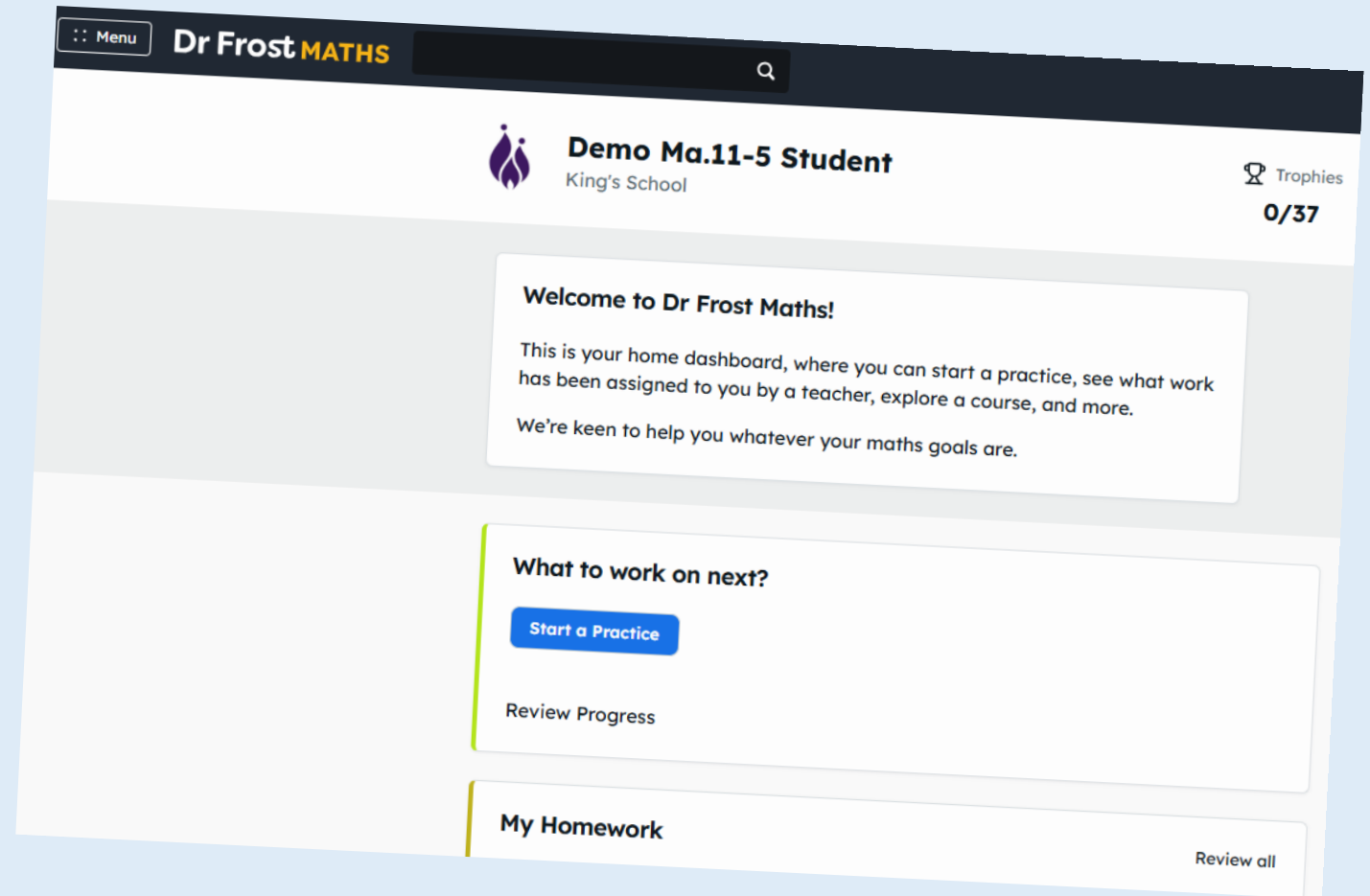
Good for students considering maths at A-Level

2



DrFrostMaths Homework

- Homework will be set every Monday on DrFrostMaths.
- Due date will be the following Monday.
- Past papers will be set on platform as year progresses.
- Communication will be sent home for non-completion with expectation students attend support session.
- Success in mathematics comes from consistent practice.
- AI and homework concerns.





KS4 Curriculum Guide - Year 11 Maths (Higher)

Term 1 **Surds, Pythagoras and Trigonometry, Constructions and Loci, Vectors, Circle Theorems**



Simplifying surds and rationalising the denominator of a fraction. Pythagoras' Theorem in 2D and 3D. Trigonometric ratios: SOHCAHTOA Exact trig values of sin, cos and tan of 30, 45 and 60 degrees. The Sine and Cosine rules. Area of a triangle = $\frac{1}{2}ab \sin C$ Using Pythagoras' Theorem and trigonometry to solve 2D and 3D problems. Ruler and compass constructions Solving problems involving loci Vectors and vector proofs. Circle theorems.

[Assessment:](#) Test on: Circle theorems, constructions & loci, Working in 3D. Pythagoras' Theorem, trigonometry and vectors [Key Words and Terms](#)

Term 2 **Calculations 2 (reciprocals, rules of indices and standard form), Graphs 1, Simultaneous Equations**



The gradient of a straight line. The equation of a straight line, $y=mx+c$. Parallel and perpendicular lines. Solving simultaneous equations. Plotting quadratic functions, including roots and turning points. Completing the square. Representing inequalities on a number line, representing inequalities as regions and solving quadratic inequalities. Distance-time graphs. Velocity-time graphs. Reciprocals. Rules of indices. Fractional and negative indices. Exact calculations. Standard form.

[Assessment:](#) GCSE Mock 1 Exam on all topics weeks beginning tbc. Paper 1(non-calculator) Paper 2(Calculator) Paper 3(Calculator)

[Key Words and Terms](#)

Examination schedule & QLA's

<https://screenrec.com/share/FIRhdmGbQe>

Student: |

Question Number	Topic	DrFrostMath Clip	Marks available	Marks Achieved
1	Volume of cuboid/prism		4	4
2	Calculating with standard form	K446, K447	3	2
3	Algebraic fractions	K408	3	3
4	Volume of cylinder	K316	3	
5	Bounds	K454	2	2
6	Volume of cuboid problem		3	3
7	Manipulating formulae	K360, k363	2	1
8	Volume with algebra		3	1
9	Rates of flow	E196	5	0
10	Area of a triangle and Pythagoras	K511	4	1
11	Hidden Pythagoras	K509	4	0
12	Speed distance time		4	4
13	Exponential graph	K613	4	3
	Draw and interpret a cumulative frequency graph	K557	5	2
	TOTAL		49	28

QLA will be emailed home:

After each half term exam for half terms 1 – 3.
A full QLA will be sent home after the Easter year 10 exams.

Areas for development:

Topics in red should be revisited by students as part of a good revision strategy.
DrFrostMaths reference numbers are included.

Tutors



What to work on next?

Question Number	Topic	DrFrontMath Clip	Marks available	Marks Achieved
1	Volume of cuboid/prism		4	4
2	Calculating with standard form	K446, K447	3	2
3	Algebraic fractions	K408	3	3
4	Volume of cylinder	K316	3	2
5	Bounds	K454	2	3
6	Volume of cuboid problem		3	3
7	Manipulating formulae	K360, k363	2	1
8	Volume with algebra		3	1
9	Rates of flow	E196	1	0
10	Area of a triangle and Pythagoras	K511	1	1
11	Hidden Pythagoras	K509	4	0
12	Speed distance time		4	2
13	Exponential graph	K613	4	3
	Draw and interpret a cumulative frequency graph	K557	5	2
	TOTAL		49	28

Paper 3 - Topics in your GCSE - Complete
Set by Mr K Knowles

[Review All](#)

YOUR COURSES

[Year 11 \(Foundation\)](#)
[Edexcel 2022 Foundation P1-3](#)

[+Add Course](#)

Resources

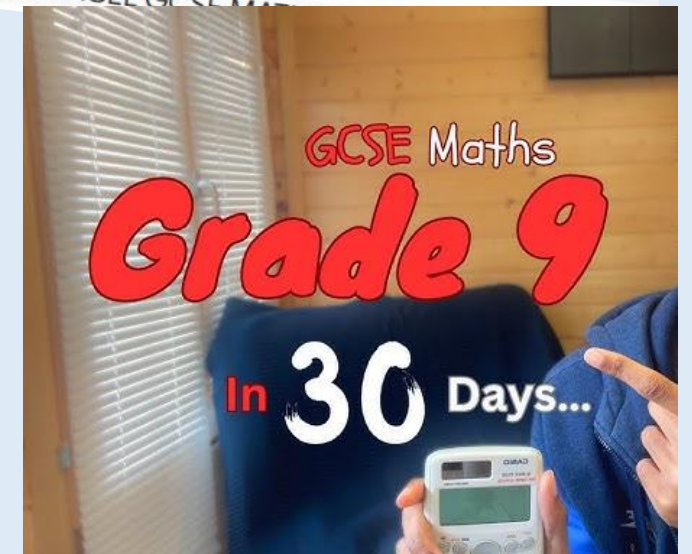
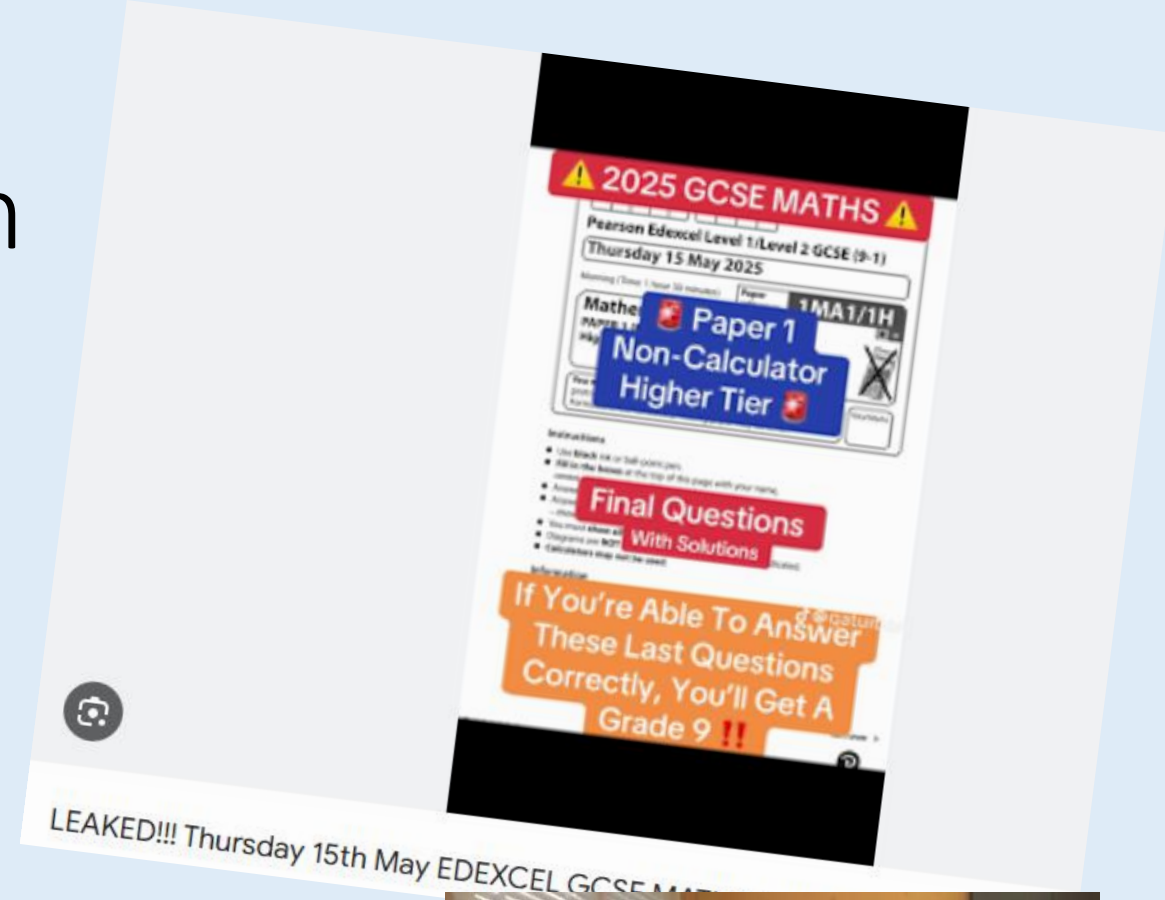
- Questions & Past Papers
- Downloadables
- Virtual Whiteboard
- DFM Live!

Notifications

- You have been set a task by your teacher Mr K Knowles. Click to start it.
5 MONTHS AGO
Exam type questions - GCSE practice. (this is for all papers)
- You have been set a task by your teacher Mr K Knowles. Click to start it.
5 MONTHS AGO
Paper 2 - Topics in your GCSE - Complete
- You have been set a task by your teacher Mr K Knowles. Click to start it.
5 MONTHS AGO
Paper 3 - Topics in your GCSE - Complete
- You have been set a task by your teacher Mr K Knowles. Click to start it.
6 MONTHS AGO
Paper 1 topics - GCSE
- You have been set a task by your teacher Mr K Knowles. Click to start it.
6 MONTHS AGO
GCSE Countdown - Algebra Key skills
- You have been set a task by your teacher Mr K Knowles. Click to start it.

Social media and revision

- Online platforms are promoting 'hacks' for passing GCSE maths exams. These are often tricks that work in a limited number of scenarios.
- Online platforms are offering to sell leaked papers. They do not exist.
- You cannot get a grade 9 in 30 days from watching a 10-minute video.



Revision resources - Mathematics

Using the exam QLA

Link on how to use the exam QLA's that are sent home



Year 10 Mathematics

Revision card

Year 10 and 11 Teams Page

Scan the QR code to make sure you can login to the year 10 Teams page to access exam papers that are not available online, as well as key resources for GCSE preparation.



Level 2 Further Maths

Topic revision tests, past exam papers and video solutions can be found by following the QR code below to the 1stClassMaths site.



DrFrostMaths

Video on how to complete past papers on the DrFrostMaths platform



Mathsgenie

QR Code that links to the mathsgenie site, where you can complete lots of past papers and watch video solutions.



1stClassMaths

QR codes that links to the 1stclassMaths site, where you can complete most past papers as well as download the ultimate revision work pack for higher and foundation GCSE.



Other sites & resources

Maths Genie

GCSE Revision

GCSE Papers ▼

A Level Revision

A Level Papers ▼

KS2 Revision

Resources

Edexcel GCSE Exam Papers

Pearson Education accepts no responsibility whatsoever for the accuracy or method of working in the answers given.

[Grade Boundaries](#)

For GCSE Maths I am using the Casio Scientific Calculator: [Casio Scientific Calculator](#)

Foundation GCSE Exam Papers

Paper	Answers
2020 Paper 1	MS Ans ▶
2020 Paper 2	MS Ans ▶
2020 Paper 3	MS Ans ▶
November 2019 Paper 1	MS Ans ▶
November 2019 Paper 2	MS Ans ▶
November 2019 Paper 3	MS Ans ▶
June 2019 Paper 1	MS Ans ▶