

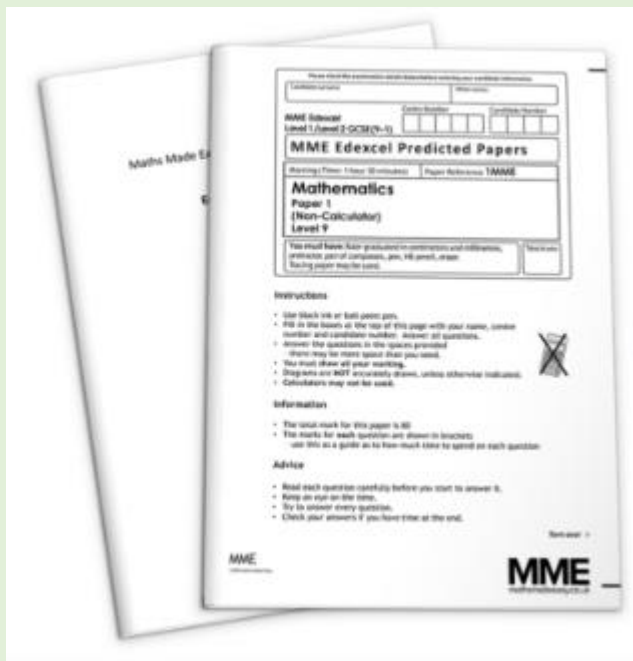
How To Support Your Child To Revise Maths

Mrs Hughes: Assistant Principal Director of Maths

Mr Jackson: Assistant Director of Maths

The Exam

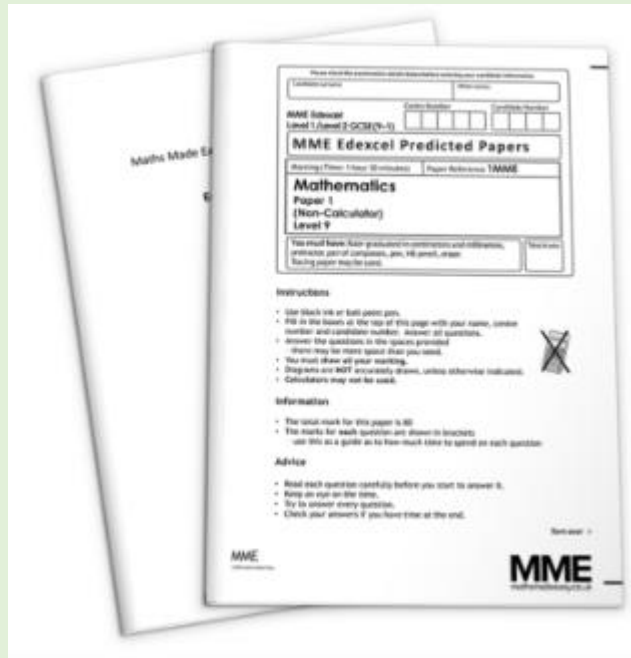
- Exam Board – Edexcel
- 100% Examination
- There are 3 Papers all 90 minutes long
- 1 Non-Calculator & 2 Calculator Papers
- Foundation Papers – Grades 1-5
- Higher Papers – Grades 3 – 9
- A grade 5 on Foundation is the Same as a Grade 5 on Higher



The Papers

These will be a mixture of

- Skills/fluency based questions
- Explain/reasoning questions
- Problem solving/bring it together questions



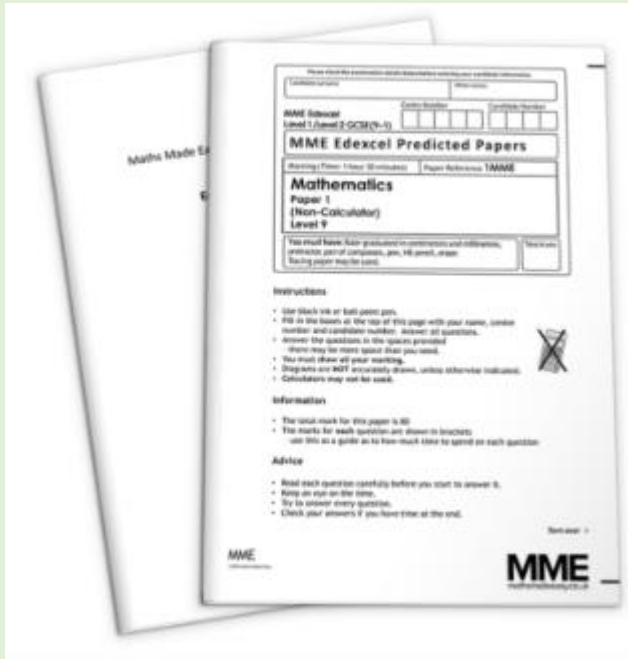
The Mocks

The Y10 mocks and all Y11 mocks are a replica of what the students will be completing at summer.

Students sat all 3 papers.

Their grade tells us what they would get right now, it is not a prediction for the summer.

The March mocks are conducted in exactly the same way as the December mocks.



Mock feedback

Questions	Topic	Score	Sparx Code
1	Position-to-term rules for arithmetic sequences	2 / 2	U498
2a	Adding and subtracting mixed numbers	2 / 2	U793
2b	Multiply with mixed numbers, Convert mixed numbers & improper fractions	1 / 1	U224,U692
3a	Finding the area of compound shapes, Solving direct proportion word problems	2 / 4	U970,U721
3b	Solving direct proportion word problems	0 / 1	U721
4a	Venn diagrams with set notation	1 / 1	U748
4b	Venn diagrams with set notation	2 / 2	U748
5a	Estimating calculations	0 / 3	U225
5b	Estimating calculations	0 / 1	U225
6a	Finding equations of straight line graphs	0 / 3	U315
6b	Equations of parallel lines	1 / 1	U377
7	Fractions of amounts, Combine ratios, Convert between fractions & percentages	1 / 5	U881,U921,U888
8	Calculating the mean	3 / 3	U291
9	Finding the percentage an amount has been changed by	1 / 1	U278
10	Solving simultaneous equations using elimination	0 / 4	U760
11	Combining transformations	0 / 3	U766
12i	Interpreting graphs of quadratic functions	1 / 1	U667
12ii	Graphs of cubic functions	1 / 1	U980
12iii	Graphs of reciprocal functions	1 / 1	U593
13a	Drawing histograms with unequal class widths	1 / 3	U814
13b	Interpreting histograms	2 / 2	U983
14	Expanding triple brackets	0 / 3	U606
15	Finding the arc length of sectors, Finding the area of sectors	0 / 4	U221,U373
16	Tree diagrams for dependent events, Multiplying algebraic fractions	0 / 2	U729,U457

You will be given these after each mock.
This identifies individuals strengths and target areas.



Which Topics To Prioritise (Higher)

‘High
Frequency
Higher Topics’

Topic	Grade (ish)	Excel Higher
Circle Theorems	7	100
Direct/Inverse Proportion	7	100
Higher Index Laws	7	100
Histograms	7	100
Product Rule for Counting	6	100
Index Laws	4	100
Vectors	8	94
Probability of Successive Events	7	94
Upper and Lower Bounds	7	94
Box Plots	6	94
Compound Interest	5	94
Error Intervals	5	94
SOHCAHTOA	5	94
Density, Mass, Volume	4	94
Volume of 3D Shapes	4	94
Share into a Ratio	3	94

How often these
topics have appeared
in an exam series
since 2017

The grade of
the topic

Which Topics To Prioritise (Foundation)

‘High
Frequency
Foundation
Topics’

Topic	Grade (ish)	Excel Foundation
Share into a Ratio	3	100
Direct Proportion	3	100
Fraction Operations	4	100
Using a Calculator	3	100
Fraction of an Amount	2	100
Find Probability	1	100
Calculations with Money	3	100
Fractions, Decimals, Percentages	1	100
Like Terms	1	100
Factorising (One or Two Brackets)	4	94
Percentage of Amount	2	94
Averages from Tables/Diagrams	4	94
Write as a Ratio	3	94
Linear Equation (2 or more steps)	4	94
Time Calculations	3	94
Metric Unit Conversions	2	94
Factors and Multiples	1	94
Rounding	1	94

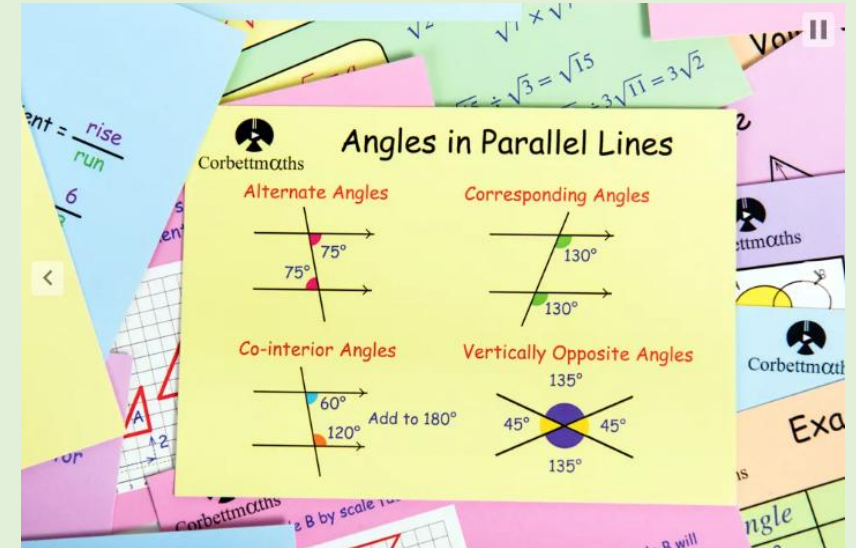
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How to revise...

Using Flash Cards

Flash cards are a great way for students to learn the key facts needed for their maths exam.



Students write the key facts and knowledge, pin them up in their bedroom and regularly quiz students on these facts.

If students don't enjoy making flash cards they can be purchased.

How to revise...

Sparx Maths

All year 11 have the Y10 Scheme of learning set as weekly homework to revise Y10 skills.

Students can also click independent learning to do further online practice.

The QLA feedback links Sparx codes to each skill and use the search button to locate this skill.

The screenshot shows the Sparx Maths 'Independent Learning' interface. At the top, the header includes 'Sparx Maths', 'Independent Learning', '20 XP', 'Student', a notification bell with '1', and a 'Menu' button. The breadcrumb trail is 'Independent learning > Number > Multiplying'. The main title is 'Multiplying and dividing by 10, 100 and 1000 - M113', with a blue arrow pointing to a 'Level 2' badge that also contains a green checkmark, two grey stars, and an information icon. Below this is a 'Show building blocks' button. The main content area is titled 'Multiplying and dividing by powers of 10' and is divided into two sections: 'Introduce' and 'Strengthen'. The 'Introduce' section has a bar chart icon and a green checkmark, followed by five green boxes labeled 'Question 1' through 'Question 5', each with a 'Correct' button. The 'Strengthen' section has a bar chart icon and is followed by six blue boxes labeled 'Question 1' through 'Question 6', each with an 'Answer' button.

How to revise...

Using 1st Class Maths

First class maths has topics by topic appearance.

Questions written by an exam writer, but not past questions.

Accurate predicted papers.

“Spicy” questions aiming for grade 9.



How to revise...

Using Maths Genie

Maths Genie allows students to practice exam style questions, including applying their knowledge.

Use Maths Genie to practice exam style questions from different topics and then use the solutions to mark your work and make sure you are improving.



How to revise...

Using On Maths

Use On Maths to practice exam style questions online with instant feedback including showing your grade.

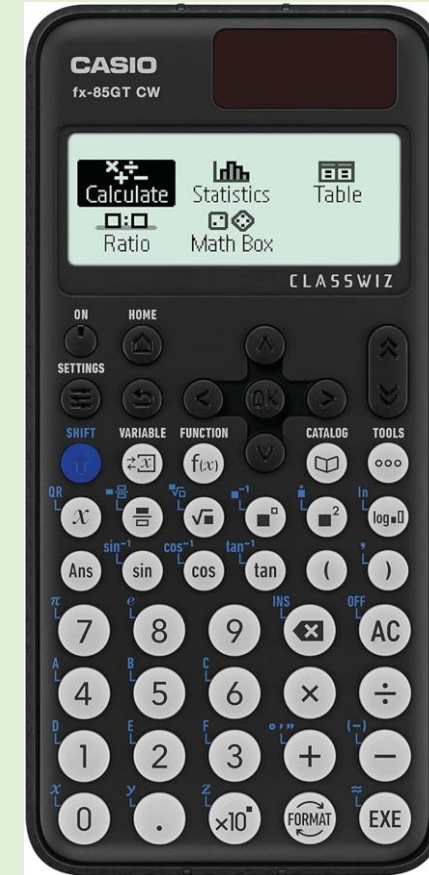
Mini quizzes, demon questions, predicted papers.



Calculators

- Bring Calculator Everyday.
- We recommend the [CLASSWIZ Casio FX-85GT CW](#)
- These can be purchased from shops and online for around £12 - £20

Amazon Prime Day is 6th/7th October
They may have a deal.
Currently £16



Revision Guides

All students were issued with a revision guide in Y10. Speak to Y10 teacher if they don't have one.

Higher

Foundation

Aiming for 8 and 9



PRACTICE MAKES PERMANENT

Little and often with maths – **30 minutes a day.**

Know in advance which topics you want to revise. Don't have 'maths' written on your revision timetable. You need to have exactly what maths you are revising so no revision time is wasted selecting the topic.

Day	Time	Topic
Monday	5:30 – 6:00	Pythagoras questions using maths genie
Tuesday	7:00 – 7:30	Write flash cards on equations of lines
Wednesday	4:30 – 5:00	Practice paper using on maths

All slides will be shared via BromCom.

Any questions please speak with one of the team.

If you have any queries, please email the class teacher or:

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Gareth.jackson@cowleysthelens.org.uk