

"Mathematics is,
in its own way,
the poetry of
logical ideas."

Albert Einstein



**Maths Department
Parental Handbook**

2024-25

Welcome to this Maths Parental handbook where we have collated the information which we believe will be most useful in supporting your child's maths journey through KMA.

Contents:

- Schemes of Learning Overview
- Curriculum Timings and Assessments
- Setting, stretch and support
- Homework and Support
- Revision

If you have any questions, please contact your child's maths teacher or drop me a line.

Mr. R. Taylor
Head of Maths



Schemes of Learning

Year					
7	8	Set	9	10	11
3	4	1	5	6	6-7
3	4	2	5	5-6	6
2-3	3	3	4	4-5	4-5

Schemes
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Units	
A	Calculations
B	Number Systems
J	Probability
C	Indices
D	Equations and Formulae
G	Graphs and Sequences
E	Proportion
K	Handling Data
F	Measurements
I	Angles
H	Transformations
L	Loci and Constructions

Rationale

Units A-E ensure a firm foundation of number and algebraic fluency is established, whilst units F-L seek to deepen and apply those topics. We have moved J, Probability to after B in order to apply the number skills in Unit B, and moved G to after D as it is a good application of graphs and sequences (Unit D). It also provides a bit of variety and ensures we give this important topic, time earlier on in the year. Unit I is hierarchically more important than Unit H, hence we have moved it earlier.



Schemes of Learning - Y7-10

Timescales

Units	Notes
A,B,J,C	Teach until Christmas, A,B,J,C. Assessment after Christmas.
Christmas Holidays	
D,G,E,K,F	Teach Christmas to End of Term 5 Assessment before Term 5 finish
May Half-Term	
I,H,L	Financial Maths Week Curriculum: Angles, Transformations & Data Handling.

End of Unit Assessments (EOUAs)

After each unit, an EOUA will take place, with at least one week's notice, including a $\frac{1}{2}$ lesson revision of the topics that are going to be on the test.

After the 1st four units, students will undertake a larger assessment incorporating questions from all four units (EO4UA). After the 2nd four units, students will undertake an assessment incorporating questions from all eight units.

Financial Maths

We undertake a financial literacy week each year in Term 6, covering such topics as basic budgeting in Y7 up to mortgages and credit cards in Year 10.

2024/25 Curriculum Calendar

Autumn Term 1 (8)							
Week 1	26th Aug	2nd Sep	9th Sep	16th Sep	23rd Sep	30th Sep	7th Oct
W/B:	Functional work pending setting		Unit A Calculations		Unit B - Number System		Unit B - Number system
Year 7	Unit A Calculations		Unit A Calculations		Unit B - Number System		Unit B - Number System
8	Unit A Calculations		Unit B - Number System		Unit B - Number System		GCSE Paper
9	Unit A Calculations		Unit B - Number System		Unit B - Number System		GCSE Paper
10	Unit A Calculations		Unit B - Number System		Unit B - Number System		GCSE Paper
11	Unit A Calculations		Unit B - Number System		Unit B - Number System		GCSE Paper
Finish Kangaroo Sol.							

Autumn Term 2 (8)							
Week 9	28th Oct	4th Nov	11th Nov	18th Nov	25th Nov	2nd Dec	9th Dec
W/B:	3 - Number System		Unit J - Probability		Unit C - Indices		Unit C - Indices
Year 7	Unit J - Probability		Unit J - Probability		Unit C - Indices		Unit C - Indices
8	Unit J - Probability		Unit J - Probability		Unit C - Indices		Unit C - Indices
9	Unit J - Probability		Unit J - Probability		Unit C - Indices		Unit C - Indices
10	Unit J - Probability		Unit J - Probability		Unit C - Indices		Unit C - Indices
11	Unit J - Probability		Unit J - Probability		Unit C - Indices		Unit C - Indices
Mock Exams							
Bespoke Sol.							

Spring Term 1 (6)						
Week 17	6th Jan	13th Jan	20th Jan	27th Jan	3rd Feb	10th Feb
W/B:	Assessments		Unit D - Equations		Unit G - Graphs and Sequences	
Year 7	Unit D - Equations		Unit D - Equations		Unit G - Graphs and Sequences	
8	Unit D - Equations		Unit D - Equations		Unit G - Graphs and Sequences	
9	Unit D - Equations		Unit D - Equations		Unit G - Graphs and Sequences	
10	Unit D - Equations		Unit D - Equations		Unit G - Graphs and Sequences	
11	Unit D - Equations		Unit D - Equations		Unit G - Graphs and Sequences	
Bespoke Sol.						

Spring Term 2 (7)							
Week 23	24th Feb	3rd Mar	10th Mar	17th Mar	24th Mar	31st Mar	7th April
W/B:	Unit G - Graphs and Sequences		Unit E - Proportion		Unit K - Handling Data		Unit K - Handling Data
Year 7	Unit G - Graphs and Sequences		Unit E - Proportion		Unit K - Handling Data		Unit K - Handling Data
8	Unit G - Graphs and Sequences		Unit E - Proportion		Unit K - Handling Data		Unit K - Handling Data
9	Unit G - Graphs and Sequences		Unit E - Proportion		Unit K - Handling Data		Unit K - Handling Data
10	Unit G - Graphs and Sequences		Unit E - Proportion		Unit K - Handling Data		Unit K - Handling Data
11	Unit G - Graphs and Sequences		Unit E - Proportion		Unit K - Handling Data		Unit K - Handling Data
Bespoke Sol.							

Summer 1 (4)				
Week 30	28th April	5th May	12th May	19th May
W/B:	Unit K - Handll		Unit F - Mensuration	
Year 7	Unit K - Handll		Unit F - Mensuration	
8	Unit K - Handll		Unit F - Mensuration	
9	Unit K - Handll		Unit F - Mensuration	
10	Unit K - Handll		Unit F - Mensuration	
11	Unit K - Handll		Unit F - Mensuration	
Bespoke Revision				

Summer 2 (6)						
Week 34	2nd June	9th June	16th June	23rd June	30th June	7th July
W/B:	Financial Mtd		Unit I - Angles		Unit H	
Year 7	Financial Mtd		Unit I - Angles		Unit H	
8	Financial Mtd		Unit I - Angles		Unit H	
9	Financial Mtd		Unit I - Angles		Unit H	
10	Financial Mtd		Unit I - Angles		Unit H	
11	Financial Mtd		Unit I - Angles		Unit H	
4th - Paper 2, 11th - Paper 3						



KS4 Summative Assessments - 2024/25

Year 10:

Students will be assessed:

- Mid-October (1x GCSE Paper)
- End of Feb (1x GCSE Paper)
- Term 5 (1x GCSE Paper)

Summative Assessments - Year 11:

- End of 1st Half term (1x GCSE Paper)
- November: School-wide Mock exams(3x GCSE Papers)
- March: School-wide Mock exams(2x GCSE Papers)



KS3 Summative Assessments - 2024/25

End of Unit Assessments (EOUAs)

End of Unit Reviews (EOUAs) are designed to be used to check students' understanding of the key concepts pertaining to each assessment point within the unit.

- *There should be a 1-week **gap between finishing the Unit and administering the EOUA** to reinforce the need to revisit prior learning.*
- *Students should be given **at least 1 week's notice**, and confirmed on Satchel:One so they can prepare for the review, using their books and topic revision lists.*
- *½ a lesson's revision should be led by the teacher*
- *These should be **glued into their exercise books** on completion.*
- *Setting may be amended after 2 EOUAs.*

End of 4 and 8 Unit Assessments (EO4/8UAs)

In mid-Dec/early January we conduct larger tests, containing a review of 4 units.

- *1 lesson's revision should be led by the teacher*
- *Setting will be reviewed after each EO4/8UA*



Homework

- Students will be set DrFrostMaths 1^{ce} per week;
 - 30-60mins.
- Closer to 30 mins for KS3, and closer to 60mins for KS4.
- This will be checked 1^{ce} per week, with any general misconceptions addressed in-class.
- Students who don't complete the task up to 60% should have it "reassigned" to them.
- Students not completing HWK, will be issued a C2-No HWK; on the 2nd missed HWK, they will be issued with a C3.

Maths Drop-In

For any HWK concerns, or test revision:

- KS3 (Y7-9) – Wednesdays, in M6
- KS4 (Y10-11) – Thursdays, in M5



Throughout both Key Stages

UK Maths Trust (UKMT) – Maths Challenge

Students in all Years will be offered the opportunity to participate in the above.

The Intermediate Maths Challenge (IMC) is aimed at Years 9-11 and will take place, on/around Wednesday 29th January, 2025.

The Junior Maths Challenge (JMC) is aimed at Years 7-8 and will take place on/around Thursday 1st May, 2025.

Past questions can be found:

- [Here](#) on their website:

Setting:

KS3

In Year 7, Year 6 tests are combined with a diagnostic test in the 2nd week of term. Students are then placed in sets 1-3. Setting is reviewed after every 2nd End of Unit Assessments with minor changes, and after large Multi-Unit Assessments which occur three times per year.

KS4

Using the EoUAs (larger assessment) and alongside other summative and teacher assessments throughout KS3, students will be set in Sets 1-3 on two halves of the year group. These will be reviewed after each major summative assessment outlined before.



Revision

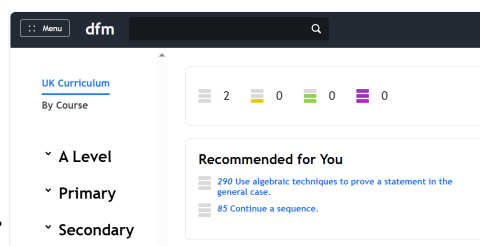
There are many ways to revise and a variety of tasks and resources can be helpful. As well as mind-mapping and the like, the 2 recommended revision strategies are:

- 1) Topic-Based
- 2) Past Papers

Topic-based

Through end of unit reviews and other summative assessments such as GCSE past papers, students should be able to identify those topics that need revising more than others.

[DrFrostMaths](#) (DFM) is the best place to go for revising those topics – type the topic into the search bar - or why not try [Corbett Maths](#).



Past Papers

We use the AQA (8300) exam board but even Edexcel past papers are useful. Again, [DrFrostMaths](#) has a whole raft of past papers on it, but other useful revision websites are:

- [Maths Genie](#)
- [Maths Made Easy](#)
- [Mr. Barton Maths](#)
- [Revision Maths](#)
- [1st Class Maths](#) (lots of past papers, including GCSE Further Maths)



If paper is more your thing, then we recommend CGP resources and their [Revision Bundles](#) are well-presented and excellent value-for-money. Check with your teacher whether you are Foundation or Higher Tier.

All the resources above are hyperlinked to the right webpages.

A list of GCSE topics can be found here.