Maths Parental Handbook

2023-24

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
- KS3 Timings and Assessments
- KS4 Scheme of Learning Overview
- KS4 Timings and Assessments
- Setting, stretch and support
- Homework and Support

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

Mr. R. Taylor
Head of Maths

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Schemes of Learning

Year					
7	**8**	**Set**	**9**	**10**	**11**
3	4	1	5	6-7	K10-11
3	4	2	5	5-6	K9-10
2	3	3	4	5	K6-9

Schemes
2
3
4
5
6
7
8

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

Students complete Units A-L each year, but at different levels.
Scheme 3-4-5-6-7 in Years 7-10. Each scheme builds on the previous year in what would be called a "Spiral Curriculum".

Y11 are completing the Kangaroo Schemes of Learning that they have been working on in Y10.

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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 ½ 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.

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Curriculum Calendar

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2023/24 Curriculum Overview - Y7-10

Year 7	Year 8	Year 9	Year 10	SOW
7a1	8a1	9a1	10.1	2
7a2	8a2	9a2	10.3	3
7a3	8a3	9a3	10.5	4
7b1	8b1	9b1	10.2	5
7b2	8b2	9b2	10.4	6
7b3	8b3	9b3	10.6	7
				8

Units of work

	Unit
A	Calculations
B	Number System
C	Indices
J	Probability
D	Equations and Formulae
G	Graphs and Sequences
E	Proportion
K	Handling Data
F	Mensuration
I	Angles
H	Transformations
L	Constructions

Curriculum Calendar

Autumn Term 1

Week	1	2	3	4	5	6	7
W/B:	29th Aug	4th Sep	11-Sep	18th Sep	25th Sep	2nd Oct	9th Oct
Year 7	Arithmetic whilst setting	Unit A - Calculations		Unit A - Calculations			
8		Unit A Calculations			Unit B - Number System		
9		Unit A Calculations			Unit B - Number System		
10		Unit A Calculations			Unit B - Number System		
11		Finish Kangaroo SoL					GCSE Paper

Autumn Term 2

Week	8	9	10	11	12	13	14	15	16
W/B:	23rd Oct	30th oct	6th Nov	13th Nov	20th Nov	27th Nov	4th Dec	11th Dec	18th Dec
Year 7	Unit B - Numb	Unit B - Number System							
8	Unit J - Probability			Unit C - Indices					
9	Unit J - Probability			Unit C - Indices			Unit D - Equations		Assessments
10	Unit C - Indices				Unit D - Equations				Assessments
11	Finish Kangaroo SoL			Mock Exams			Bespoke SoL		

Spring Term 1

Week	17	18	19	20	21	22
W/B:	8th Jan	15th Jan	22nd Jan	29th Jan	5th Feb	12th Feb
Year 7	Unit D - Equation	Assessments	Unit D - Equations			
8	Unit D - Equations			Unit G - Graphs and Sequences		
9	Assessments			Unit G - Graphs and Sequences		
10	Unit D - Equations			Unit G - Graphs and Sequences		
11	Bespoke SoL			Mock Exams		

Spring Term 2

Week	23	24	25	26
W/B:	26th Feb	4th March	11th March	18th March
Year 7	Unit G - Graphs and Sequences			
8	Unit E - Proportion			
9	Unit E - Proportion			
10	Unit E - Proportion			
11	Bespoke SoL			

Summer 1

Week	27	28	29	30	31	32	33
W/B:	8th April	15th April	22nd April	29th April	7th May	13th May	20th May
Year 7	Unit E - Proportion		Unit K - Handling Data		Unit F - Mensuration		
8	Unit K - Handling Data			Unit F - Mensuration			O4UAssessments
9	Unit K - Handling Data			Unit F - Mensuration			O4UAssessments
10	Unit E - Proportion		Unit K - Handling Data		Unit F - Mensuration		GCSE Paper
11	Bespoke Revision				16th-Paper 1		Bespoke Revision

Summer 2

Week	34	35	36	37	38	39
W/B:	3rd June	10th June	17th June	24th June	1st July	8th July
Year 7	Financial Mat	Unit F				
8	Financial Mat		Unit I - Angles			
9	Financial Mat		Unit I - Angles			Unit H
10	Financial Mat		Unit I - Angles			
11	3rd-Paper 2	10th-Paper 3				

Whilst the above plan is highly detailed, teaching and learning can take varying lengths of times; so the exact dates of moving onto different units may vary by small amounts.

KS4 Summative Assessments - 2023/24

Year 10:

Students will be assessed:

- Mid-October (1x GCSE Paper)
- End of Feb (1x GCSE Paper)
- Term 5 (1x GCSE Paper)
- Other topic-based tests as decided by the teacher.

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(3x GCSE Papers)
- Other topic-based tests as decided by the teacher.

Throughout both Key Stages

Homework

- Students should be set DrFrostMaths 1^{ce} per week;
- totalling 30-60mins.
- Closer to 30 mins for KS3, and closer to 60mins for KS4.
- This should be checked also 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.   This is a general aim, but could be adjusted as teachers see fit.
- 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, teachers and some expert students are available

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

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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 31st January, 2024.

The Junior Maths Challenge (JMC) is aimed at Years 7-8 and will take place on/around Thursday 25th April 2024.

Past questions can be found on the UKMT website:
https://ukmt.org.uk/

Students in the top set in Y11 will be offered additional, optional qualifications: GCSE Further Maths and GCSE Statistics.

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 in two halves of the year group. These will be reviewed after each major summative assessment outlined before.

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