Maths Curriculum Overview - Summer 2026

Year 7	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Unit 9: Order of operations Unit 10: Ratio Revision, unit test and review	Unit 11: Working with data Revision, unit test and review
Why have you chosen to teach this unit, and this time?	**Why have you chosen to teach this unit, and this time?**
This is a build on from the Key Stage 2 curriculum to build fluency and helps students to be competent and be able to master topics to come later on the curriculum.	*Students would be competent with pre requisite knowledge so now they would be able to master topics involving using basic computation skills to comprehend these topics*
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	**What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?**
1. *Able to use order of operation-Bidmas.* 2. *Able to simplify and use ratio* 3. *Able to solve problem involving order of operations and ratio.*	1. *Able to read from charts and graphs* 2. *Able to analyse and find averages from charts, dataset or from a frequency table* 3. *Able to draw charts and graphs from a give data.*
Is this topic on the National Curriculum? **Yes** **Will all staff be teaching this unit?** **Yes**	**Is this topic on the National Curriculum?** **Yes** **Will all staff be teaching this unit?** **Yes**

Year 8	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Unit 11: Angles Unit 12: Transformations Revision, unit test and review	Unit 13: Statistics Revision, unit test and review
Why have you chosen to teach this unit, and this time?	**Why have you chosen to teach this unit, and this time?**
This builds on from the year 7 curriculum and helps further develop fluency and mastery in number operations	*Students would be competent with pre requisite knowledge so now they would be able to master topics involving using prior knowledge from keystage 2 and year 7 to master these topics*
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	**What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?**
1. *Able to use angle facts* 2. *Able to perform the four transformations* 3. *Able to solve problem involving angles and transformations*	1. *Able to read from charts and graphs* 2. *Able to find averages from charts, dataset or from a frequency table* 3. *Able to draw charts and graphs from a give data.*
Is this topic on the National Curriculum? **Yes** **Will all staff be teaching this unit?** **Yes**	**Is this topic on the National Curriculum?** **Yes** **Will all staff be teaching this unit?** **Yes**

Year 9	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
Unit 11: Percentages Unit 12: Proportion Revision, unit test and review	Unit 13: Constructions, Loci and Bearings Revision, unit test and review
Why have you chosen to teach this unit, and this time?	**Why have you chosen to teach this unit, and this time?**
This builds on from the year 7 and 8 curriculum and helps further develop fluency and mastery in number operations	*Students would be competent with pre requisite knowledge so now they would be able to master topics involving using prior knowledge from key stage 2, year 7, and year 8 to fully develop and understand these topics.*
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	**What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?**
1. *Able to work out and use percentages* 2. *Able to work out direct and indirect proportions* 3. *Able to solve problem involving percentage and proportions*	1. *Able to perform construction using pencil, protractor and compass.* 2. *Able to understand loci* 3. *Able to solve problem involving construction*
Is this topic on the National Curriculum? **Yes** **Will all staff be teaching this unit?** **Yes**	**Is this topic on the National Curriculum?** **Yes** **Will all staff be teaching this unit?** **Yes**

Year 10	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
<u>Foundation and Crossover</u> Unit 9: Compound Measures Unit 10: Probability Revision, unit test and review <u>Higher and Extension</u> Unit 11 : Ratio Unit 12 : Graphs of circles Unit 13 : Linear and Quadratic Simultaneous equations Revision, unit test and review	<u>Foundation and Crossover</u> Unit 11: Averages and the range Revision, unit test and review <u>Higher and Extension</u> Unit 14: Histograms, cumulative frequency and box plots Revision, unit test and review
Why have you chosen to teach this unit, and this time?	**Why have you chosen to teach this unit, and this time?**
This builds on from the year 7, 8 and 9 curriculum and helps further develop fluency and mastery in number operations	*Students would be competent with pre-requisite knowledge so now they would be able to master topics involving using prior knowledge from key stage 2, year 7, year 8 and year 9 to fully develop and understand these topics.*
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	**What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?**
1. *Able to calculate compound measure* 2. *Able to simplify and sole ratio problems* 3. *Able to solve simultaneous and quadratic equations*	1. *Able to work out the averages from a data set or from a table* 2. *Able to draw the appropriate graph associated to a data set* 3. *Able to draw and use box plot, cumulative frequency graph and histogram*
Is this topic on the National Curriculum?	**Is this topic on the National Curriculum?**

Yes **Will all staff be teaching this unit?** Yes	Yes **Will all staff be teaching this unit?** Yes

Year 11	
What are you teaching? Summer 1	**What are you teaching? Summer 2**
<u>Foundation and Crossover</u> Bespoke teaching, based on results of mock examinations Revision, unit test and review <u>Higher and Extension</u> Bespoke teaching, based on results of mock examinations unit test and review examinations unit test and review	<u>Foundation and Crossover</u> Bespoke teaching, based on results of mock examinations Revision, unit test and review <u>Higher and Extension</u> Bespoke teaching, based on results of mock examinations
Why have you chosen to teach this unit, and this time?	**Why have you chosen to teach this unit, and this time?**
This builds on from key stage 2 and 3 and year 10 curriculum and helps further develop fluency and mastery in number operations	*Students would be competent with pre-requisite knowledge so now they would be able to master topics involving using prior knowledge from key stage 2, key stage 3 and year 10 to fully develop and understand these topics.*
What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?	**What are the 3 key pieces of knowledge you will have expected students to acquire by the end of this unit?**
1. Able to select and use the correct skill to solve a problem *2. Able to solve complex problem by using* *3. Able to check for the reasonableness of their solutions*	*1. Able to select and use the correct skill to solve a problem* *2. Able to solve complex problem by using* *3. Able to check for the reasonableness of their solutions*

Is this topic on the National Curriculum? Yes **Will all staff be teaching this unit?** Yes	**Is this topic on the N** Yes **Will all staff be teaching this unit?** Yes

The Maths Curriculum-thread

At Kempton Academy students in Mathematics develop a deepening understanding concepts over time and building on foundational skills from year 7-11 in the following areas;

- Number
- Ratio and Proportion
- Algebra
- Geometry and Measures
- . Probability and Statistic

Our 5-year rich and rigorous scheme of learning ensures that the Maths curriculum is well sequencing to ensure the needed progression starting in Year 7 to 11.

For example in year 7 students are introduced to basic algebraic manipulation, such as solving simple linear equations and understanding expressions and variables. In Year 8, these skills are reinforced and extended as students encounter more complex equations, inequalities, and begin working with quadratic expressions. By Year 9, students are confidently solving quadratic equations, expanding algebraic fractions, and exploring simultaneous equations. At the GCSE level, this foundation enables students to tackle more advanced algebra, including factoring complex quadratic expressions, solving quadratic inequalities, and working with functions.

By the end of their studies, students are equipped to confidently apply these algebraic techniques to real-world problems and theoretical mathematical challenges, reflecting the depth and breadth of their cumulative learning.