

Yearly Overview Mathematics 2025-26

Subject	Autumn 1	<i>Why are you delivering this topic at this time of year?</i>	Autumn 2	<i>Why are you delivering this topic at this time of year?</i>	Spring 1	<i>Why are you delivering this topic at this time of year?</i>	Spring 2	<i>Why are you delivering this topic at this time of year?</i>	Summer 1	<i>Why are you delivering this topic at this time of year?</i>	Summer 2	<i>Why are you delivering this topic at this time of year?</i>
Yr 7	Recap the four operations in starters. Place Value	Students usually have poor retention of the four operations and basic arithmetic; these skills will be embedded throughout the year in starter activities. Students will look at place value to think about tenths and hundredths, converting between fractions and decimals.	Negative numbers. Fractions.	To continue to build and secure a firm foundation and confidence in understanding Number. Use knowledge of place value, learnt in term 1 to think about fractions in more detail. Negative numbers will be taught as it will be a prerequisite skill for many topics going forward.	Fractions Indices	To refer back to what was learnt in previous 2 terms so students can see connections and learn in more depth about fractions. How to simplify and find equivalent fractions, to use previous taught knowledge to look at converting all types of fractions to decimals. Introduce the topic of indices, this will form the prerequisite skills needed to move onto the topic of algebra next term	Algebra	To be able to mix and combine the skills taught from terms 1-3 when introducing the topic of Algebra. This topic will form a good basis for when the students explore the topic in more detail in year 8.	Working with measures – rounding, metric lengths, perimeter, reading analogue clocks	Many students are unable to read an analogue clock so this is taught in year 7 and it will continue to be embedded during tutor numeracy times. Students are introduced to metric lengths which they will use when finding perimeters. By year 9 they will need to be able to distinguish between imperial and metric units.	2D shapes, their properties and area.	Students should now have a good understanding of perimeters, this will lead into the teaching of area. Again, students will be given opportunities to recap previous taught topics through their learning of shapes and areas.

Yr 8	Negative numbers Expressions	Students will recap their knowledge of calculating with negative numbers as this will be used during the teaching of expressions. They will be reminded of their learning in year 7 when they were taught how to solve equations. They will be encouraged to make connections and understand the difference between expressions and equations.	Angles	Students will recap how to measure angles which they learnt in year 7, they will then build on their knowledge of angle properties as a good foundation for key geometry skills needed for KS4 maths.	Ratio	Ratio will be taught with more time given this year to embed and deepen their understanding of the topic to give a firm foundation for maths in KS4.	Probability	Students will be given a whole term to learn about probability to give a solid foundation for maths in KS4.	Circles – area and circumference 3D shapes, nets and surface area.	Students have learnt how to find area and perimeter of quadrilaterals in year 7, they will be built on these skills to learn about nets and surface area, as well as learning how to find the area and circumference of circles.	Functions, coordinates and graphs.	Students will use their skills and knowledge of the topics taught in term 1 to learn how to complete table of values and plot graphs. This term builds on from when they were introduced to it in their previous year.
Yr 9	Pie Charts, averages and frequency tables. Stem and leaf diagrams	In year 9 during the first two terms I focus on teaching Statistics, it is calculator based so it builds the confidence of the lower ability students and revisits and builds on from when it was taught in Year 8 –Term 4. All topics will link in with the GCSE maths syllabus and have GCSE past	Probability. Two way tables, scatter and time series graphs.	All topics interconnect and build on previous taught work. Probability is taught before Two tables as this is a prerequisite skill for that topic.	Factors, multiples and primes. Fractions mileage charts	From term 3 students are taught the Number and Measure Level 1 course, it is a good foundation for the GCSE exam and it gives the students an incentive and focus to gain their first qualification.	Percentages, area, perimeter and volume.	I teach these topics now as these are needed for those taking their N+M exam in May. As always, students are shown interconnections between topics and embed previous taught skills.	Bearings and interior/ exterior angles of polygons	At this stage, students already have a good grasp of angle properties in straight lines/ around a point and measuring angles with 180° protractors. These skills are therefore built on and embedded when learning the topic of bearings and exterior/	Algebra Pythagoras theorem.	Students revisit and develop their previous taught knowledge of algebra from ks3, this will be covered again throughout yr 10 and 11. Pythagoras theorem will be introduced before the teaching of trigonomet

		paper questions in worksheets.								interior angles in polygons.		ry in year 10/11.
Yr 10	Inequalities on number lines; Number machines; Plotting graphs; Reflection	These topics are easy marks to pick up in the GCSE exam and can be easily differentiated to suit all abilities.	Rotation; Translation; Enlargement; Ratio; Recipes	Students will be taught these topics as they are needed for the GCSE exam, and students already have the prerequisite skills needed. Students will revisit and build on their knowledge of ratio from Year 8. This will lead into a smooth transition to teaching proportion. Students will learn how to answer proportion type questions through recipes, best buys and exchange rates.	Probability and tree diagrams; Multiples, factors and primes	Factors and primes were previously taught in year 9, the current Year 10's are very low ability and need to revisit this topic as most are still working towards their Number and Measure qualification. Factors and primes are a prerequisite skill to the next topic of 'finding the product of prime factors.'	Ordering decimals. Fractions. Perimeter, area, volume.	These topics will be revisited due to the low level of the group and their upcoming Number and Measure exam.	Worded questions. Solving linear equations. Pythagoras Theorem.	Pythagoras is prerequisite to Summer 2 trigonometry.	Trigonometry. Angles in parallel lines, Vectors.	Students should have the prerequisite skills to be taught these topics.
Yr 11	Product of prime factors. Venn diagrams and set notation. Standard form.	These topics are easy marks to pick up in the GCSE exam and can be easily differentiated to suit all abilities. It eases the students back into their final year.	Error Intervals. Averages in tables	Students are given the opportunity to revise, recap and build on these previous taught topics. Some students will not have been taught them before due to previous groupings/new pupils.	Probability tree diagrams. Ratio and proportion.	Students are given the opportunity to revise, recap and build on these previous taught topics. Some students will not have been taught them before due to previous groupings/new students.	Scatter graphs. Time Series graphs. Plotting graphs.	Scatter graphs and time series graphs did not appear on last summer's GCSE papers so there is a high chance it could this summer. Students have been taught these topics before and are given the opportunity to revise, recap				

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