

Year 7 Spring Term 2021 Maths Curriculum

Students in Year 7 study different content dependent upon their class. The classes will spend approximately two weeks studying each topic.

Mr Storey-Scott, Mrs Loveridge/Mr Hammond		Mrs Joseph, Mr McClusky		Mr Bees, Mr Bullock/Mr Ahluwalia	
Money	After looking at the value of the coins and notes used within the UK students solve a variety of problems involving adding and subtracting different amounts of money and calculating change.	Measurements	After looking at how to read scales accurately, students look at the different metric units for length, mass and capacity. This involves estimating measuring and converting between different units.	Transformations	Students transform shapes using reflections, rotations and translations. The reverse process of describing transformations is also considered as well as combining various transformations.
Revision of Year 7 work	Students revisit and further practise work from throughout Year 7. The following topics will be covered: <ul style="list-style-type: none"> • Place value • Addition and subtraction • Multiplication and times tables • The fraction wall • Multiplying and dividing by powers of 10 and rounding • Negative numbers • Measuring lines and perimeter • Division • Shapes and symmetry • Time • Coordinates 	Revision of Year 7 work	Students revisit and further practise work from throughout Year 7. The following topics will be covered: <ul style="list-style-type: none"> • Commutative and associative laws • Factors, multiples and primes • Multiplication and division • Fractions • Negative numbers • Decimals • Angles • Properties of shapes and solids • Area • Proportional reasoning • Fractions and percentages 	Revision of Year 7 work	Students revisit and further practise work from throughout Year 7. The following topics will be covered: <ul style="list-style-type: none"> • Commutative and associative laws • Factors, multiples and primes • Multiplication and division • Fractions • Negative numbers • Decimals • Algebraic expressions • Lines and angles • Fraction arithmetic • Solving equations • Arithmetic sequences
End of Year tests and feedback	Students will sit two, 50 minute tests covering their work from throughout the year before analysing and evaluating their performance. These tests will take place in the week beginning 24 th May.	End of Year tests and feedback	Students will sit two, 50 minute tests covering their work from throughout the year before analysing and evaluating their performance. These tests will take place in the week beginning 24 th May.	End of Year tests and feedback	Students will sit two, 50 minute tests covering their work from throughout the year before analysing and evaluating their performance. These tests will take place in the week beginning 24 th May.
Equivalent fractions	By looking at pictorial representations of fractions students identify equivalence, this is then developed looking at numerical forms of fractions. Techniques for finding fractions of quantities are then studied.	Squares, cubes, roots and order of operations	By firstly drawing pictorial sequences, students define square cube and triangular numbers. Students also learn how to find and estimate square roots before looking at how these operations can be combined.	Representations of solids	After first looking at the different properties of common solids; students look at various ways of representing them including isometric drawings, nets and plan and elevations
Presentation of data	Various methods for recording and presenting data are studied including tally charts, bar charts and pictograms. Students practice drawing these graphs and reading information from them.	Averages and data	Students firstly look at the different averages used to represent sets of data. They then look at how data sets can be represented using both pie charts and line graphs	Averages	After looking at when it is appropriate to use each of the different averages, students solve problems involving missing data and data presented to them in a frequency table

After completing each topic students complete an assessed piece of work in their yellow assessment book.