



## MATHEMATICS: Curriculum Overview

### Year 7

Half Term	Topic studied	What will I learn?	How will I be assessed?
Year 7 Autumn 1	Whole Number Arithmetic, Long Multiplication & Division, Decimals, Using A Calculator, Sequences, Perimeter & Area	How to perform calculations with a range of operations on whole numbers and decimals, <ul style="list-style-type: none"> <li>- Calculator proficiency</li> <li>- Problem solving</li> <li>- How to generate and describe sequences</li> <li>- How to calculate A and P of a variety of simple and compound shapes</li> </ul>	Test in penultimate week of October HT. <i>(plus marking of exercise books throughout the term)</i>
Year 7 Autumn 2	Averages & Range, Fractions, Fractions, Decimals, %, Angles, Rules of Algebra	<ul style="list-style-type: none"> <li>- How to calculate the mean, median, mode and range from frequency tables and compare two sets of data using these.</li> <li>- How to perform calculations with 4 operations on fractions, including mixed numbers.</li> <li>- How to convert between F/D/P.</li> <li>- Know basic angle facts (Be able to find missing angles forming and using expressions</li> </ul>	Test in the week before Xmas break. <i>(plus marking of exercise books throughout the term)</i>
Year 7 Spring 1	Co-ordinates, Long Multiplication & Division 2, Decimals 2, Properties of Numbers, Straight Line Graphs, Probability	<ul style="list-style-type: none"> <li>-in 4 quadrants</li> <li>- recap</li> <li>-recap</li> <li>-factors, multiples, primes, squares consolidation activities</li> <li>-equations of horizontal, vertical and <math>y=x</math></li> <li>-scale and using decimals/fractions/%</li> </ul>	No formal test this half term. <i>(Marking of exercise books throughout the term)</i>
Year 7 Spring 2	Handling Data, Applying Maths, Percentages, Proportion & Ratio, Negative Numbers, More Algebra	<ul style="list-style-type: none"> <li>-presentation and interpretation of graphs</li> <li>-problem solving</li> <li>-simplifying and calculation of % of amounts</li> <li>-unitary method, sharing in a ratio</li> <li>-all 4 functions</li> <li>-forming and solving equations</li> </ul>	Test in the week before Easter break. <i>(plus marking of exercise books throughout the term)</i>
Year 7 Summer 1	Constructing Triangles, 2-D Shapes, Rotation, Line Symmetry, Translation, Number Review, Probability 2, Interpreting Graphs	<ul style="list-style-type: none"> <li>-compasses and protractor work</li> <li>-recognising all quadrilaterals and polygons, names and properties</li> <li>-simple shapes, looking at rot. symmetry</li> <li>-reflecting and recognising</li> <li>-simple shapes in 2D</li> <li>-recap</li> <li>-calculating probability of events with equally likely outcomes</li> <li>-eg travel graphs</li> </ul>	No formal test this half term. <i>(plus marking of exercise books throughout the term)</i>
Year 7 Summer 2	Rounding Numbers, More Equations, Sequence Rules, Metric & Imperial Units, Revision & Exam, Angles & Construction, 3-D Objects, Upper sets additional topic, Circles	<ul style="list-style-type: none"> <li>-decimal places, use of a calculator</li> <li>-solving 2 step linear equations</li> <li>- finding term to term, and nth term</li> <li>-learning conversions</li> <li>-</li> <li>- more compass and protractor work</li> <li>-isometric paper, recognise names and properties</li> <li>-</li> <li>-circumference and area formulae.</li> </ul>	End of Year Exams, usually first week back after May half term. Setting for Y8 will be based on performance across the year, but most heavily based on summer exam.