Northease Manor School

	Mathematics Year 7
Term	**Curriculum outline**
Autumn 1	Students will ~ • Work with numbers up to ten million • Identify factors, multples and primes • Use negatives in context • Know and use the order of operations (BIDMAS) • Solve problems involving addition, subtraction, multiplication and division • Construct 2D shapes and explore nets of 3D shapes
Autumn 2	Students will ~ • Investigate angles in polygons and understand and use the vocabulary of circles • Use simple formulae written in words and algebraically • Explore and use the equivalence of fractions, decimals and percentages
Spring 1	Students will ~ • Solve problems involving proportional reasoning • Generate and describe linear number sequences • Use, read and convert between standard units using decimal notation
Spring 2	Students will ~ • Find missing angles at a point, on a straight line, or involving vertically opposite angles • Add and subtract fractions with different denominators • Multiply fractions, and divide fractions by a whole number • Multiply decimals by a whole number • Solve problems involving percentages
Summer 1	Students will ~ • Solve equations and inequalities • Explore area and perimeter • Calculate the area of parallelograms and triangles • Calculate, estimate and compare volume of cubes and cuboids • Use estimation and rounding to check answers
Summer 2	Students will ~ • Use coordinates in all four quadrants • Draw and translate simple shapes on the coordinate plane, and reflect them in the axes • Interpret and construct pie charts and line graphs and use these to solve problems • Calculate and interpret the mean as an average