



Mathematics Year 8	
Term	Curriculum outline
Autumn 1	Students will ~ <ul style="list-style-type: none">• Solve problems involving factors, multiples and primes• Explore powers and roots• Compare and order numbers• Apply the four operations to integers and decimals• Know and apply the correct order of operations (BIDMAS)• Use the standard conventions for labelling of sides and angles in 2D shapes
Autumn 2	Students will ~ <ul style="list-style-type: none">• Investigate properties of 3D shapes• Explore Triangles and quadrilaterals• Simplify algebraic expressions• Substitute values into formulae and expressions• Express one quantity as a fraction or percentage of another• Divide a quantity in a given ratio
Spring 1	Students will ~ <ul style="list-style-type: none">• Generate terms of a sequence• Use standard units of length, mass and capacity• Apply the properties of angles to solve problems
Spring 2	Students will ~ <ul style="list-style-type: none">• Apply the four operations to fractions• Compare two quantities using percentages• Solve problems involving percentage change, including percentage increase/decrease• Solve linear equations in one unknown
Summer 1	Students will ~ <ul style="list-style-type: none">• Calculate perimeter of 2D shapes• Know and apply formulae to calculate area of triangles, parallelograms, trapezia, and volume and surface area of cuboids• Check, approximate and estimate answers, including answers obtained using a calculator.
Summer 2	Students will ~ <ul style="list-style-type: none">• Understand and use lines parallel to the axes• Solve geometric problems on coordinate axes• Identify, describe and construct congruent shapes by considering rotation, reflection and translation• Interpret and construct tables, charts and diagrams, including frequency tables, bar charts, pie charts and pictograms• Interpret, analyse and compare data using averages and range.