



YEAR 8 CURRICULUM SUMMARY



| When ? | Chapter | Key Learning Objectives Key Questions | Unit Assessments (End of Chapter tests) |
|-------------|-------------------------------------|--|--|
| HALF TERM 1 | CH 1: Percentages | <ul style="list-style-type: none"> • how to calculate simple interest • how to use a multiplier to calculate percentage increases and decreases • how to calculate the original value after a percentage change | <p>EOC 1: Percentages</p> <ul style="list-style-type: none"> • Simple interest • Percentage increases and decreases • Calculating the original value • Using percentages |
| | CH 2: Equations and formulae | <ul style="list-style-type: none"> • how to expand brackets and factorise algebraic expressions • how to solve equations • how to use formulae | <p>EOC 2: Equations and formulae</p> <ul style="list-style-type: none"> • Multiplying out brackets • Factorising algebraic expressions • Equations with brackets • Equations with fractions |
| HALF TERM 2 | CH 3: Polygons | <ul style="list-style-type: none"> • the names of different polygons • the difference between an irregular polygon and a regular polygon • how to work out the sum of the interior angles of a polygon • how to work out the size of each interior angle in regular polygons | <p>EOC 3: Polygons</p> <ul style="list-style-type: none"> • Polygons • Angles in polygons • Interior angles of regular polygons |
| | CH 4: Using data | <ul style="list-style-type: none"> • how to recognise correlation from scatter graphs • how to construct and interpret two-way tables • how to compare two sets of data from statistical diagrams | <p>EOC 4: Using data</p> <ul style="list-style-type: none"> • Scatter graphs and correlation • interpreting graphs and diagrams • Two-way tables • Comparing two or more sets of data |



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| HALF TERM 3 | CH 5: Circles | <ul style="list-style-type: none">• how to plan a statistical investigation | EOC 5: Circles <ul style="list-style-type: none">• The formula for the circumference of a circle• The formula for the area of a circle• Mixed problems |
| | CH 6: Enlargements | <ul style="list-style-type: none">• how to use π• how to use π to calculate the circumference of a circle• how to use π to calculate the area of a circle <ul style="list-style-type: none">• how to use a scale factor to show an enlargement• how to use rays to enlarge a shape about a centre of enlargement• how to enlarge a shape about a centre of enlargement on a coordinate grid | EOC 6: Enlargements <ul style="list-style-type: none">• Scale factors and enlargements• The centre of enlargement• Enlargements on grids |
| | CH 7: Fractions | <ul style="list-style-type: none">• how to subtract any two fractions• how to multiply any two fractions• how to divide any two fractions | EOC 7: Fractions <ul style="list-style-type: none">• Adding and subtracting fractions• Multiplying fractions• Dividing fractions |
| | CH 8: Algebra | <ul style="list-style-type: none">• more about expanding brackets and factorising algebraic expressions• how to simplify more complicated expressions | EOC 8: Algebra <ul style="list-style-type: none">• Expanding brackets• Factorising algebraic expressions• Expanding and simplify |



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| HALF TERM 4 | <p>CH 9: Decimal Numbers</p> | <ul style="list-style-type: none"> • how to extend your ability to work with powers of 10 • how to know when to make suitable rounding and to use rounded numbers to estimate the results of calculations | <p>EOC 9: Decimal Numbers</p> <ul style="list-style-type: none"> • Multiplication of decimals • Powers of 10 • Rounding appropriately • Dividing decimals • Solving problems |
| HALF TERM 5 | <p>CH 10: Surface area and volume of 3D shapes</p> <p>CH 11: Solving equations graphically</p> <p>CH 12: Distance, Speed and time</p> | <ul style="list-style-type: none"> • how to work out the surface areas of cubes and cuboids • how to work out the volumes of cubes and cuboids • how to work out the volumes of triangular prisms • how to solve linear equations graphically • how to use straight-line graphs to solve problems • how to solve simple quadratic equations • how to use quadratic graphs to solve problems • how to solve problems involving distance, speed and time | <p>EOC 10: Surface area and volume of 3D shapes</p> <ul style="list-style-type: none"> • Surface area of cubes and cuboids • Volume of cubes and cuboids • Volume of triangular prisms <p>EOC 11: Solving equations graphically</p> <ul style="list-style-type: none"> • Graphs from equations in the form $ay \pm bx = c$ • Problems involving straight-line graphs • Solving simple quadratic equations by drawing graphs • Problems involving quadratic graphs <p>EOC 12: Distance, Speed and time</p> <ul style="list-style-type: none"> • Distance • Speed • Time |



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| HALF TERM 6 | CH 13: Right-angled triangles CH 14: Revision | <ul style="list-style-type: none">• what similar triangles are• patterns you can find in similar and right-angled triangles• how to use these patterns to solve some problems <ul style="list-style-type: none">• help you to practise and revise topics covered in your current course• get you started on your GCSE course | EOC 13: Right-angled triangles <ul style="list-style-type: none">• Similar triangles• A summary of similar triangles• Using triangles to solve problems EOC 14: Revision <ul style="list-style-type: none">• GCSE-type question |