



YEAR 8 CURRICULUM SUMMARY

YEAR



When ?	Chapter	Key Learning Objectives Key Questions	Unit Assessments (End of Chapter tests)
<p>HALF TERM 1</p>	<p>CH 1: Percentages</p>	<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
	<p>CH 2: Equations and formulae</p>	<ul style="list-style-type: none"> • how to expand brackets and factorise algebraic expressions • how to solve more complex equations • how to rearrange 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
	<p>CH 3: Polygons</p>	<ul style="list-style-type: none"> • how to calculate the interior and exterior angles of polygons • how to calculate the interior and exterior angles of regular polygons • how regular polygons tessellate • how to make accurate geometric constructions 	<p>EOC 3: Polygons</p> <ul style="list-style-type: none"> • Angles in polygons • Construction • Angles in regular polygons • Tessellations and regular polygons
	<p>CH 4: Using data</p>	<ul style="list-style-type: none"> • how to interpret correlation from two scatter graphs • how to interpret time-series graphs • how to construct and interpret two-way tables • how to compare two sets of data from statistical diagrams • how to plan a statistical investigation 	<p>EOC 4: Using data</p> <ul style="list-style-type: none"> • Scatter graphs and correlation • Time series graphs • Two-way tables • Comparing two or more sets of data • Statistical investigations



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HALF TERM 2	CH 5: Application of graphs	<ul style="list-style-type: none"> • how to interpret and draw step graphs • how to interpret and draw time graphs • how to interpret and draw exponential growth graphs 	EOC 5: Application of graphs <ul style="list-style-type: none"> • Step graphs • Time graphs • Exponential growth graphs
	CH 6: Pythagoras' theorem	<ul style="list-style-type: none"> • how to use Pythagoras' theorem to calculate the lengths of sides in right-angled triangles • how to use Pythagoras' theorem to solve problems 	EOC 6: Pythagoras' theorem <ul style="list-style-type: none"> • Introducing Pythagoras' theorem • Calculating the length of the hypotenuse • Calculating the length of a shorter side • Using Pythagoras' theorem to solve problems
	CH 7: Fractions	<ul style="list-style-type: none"> • how to multiply any two fractions or mixed numbers • how to divide any two fractions or mixed numbers 	EOC 7: Fractions <ul style="list-style-type: none"> • Adding and subtracting fractions • Multiplying fractions • Multiplying mixed numbers • Dividing fractions and mixed numbers
	CH 8: Algebra	<ul style="list-style-type: none"> • how to expand a bracket when powers are involved • how to factorise an expression when powers are involved • how to expand the product of two brackets 	EOC 8: Algebra <ul style="list-style-type: none"> • More about brackets • Factorising expressions containing powers • Expanding the product of two brackets
HALF TERM 3	CH 9: Decimal Numbers	<ul style="list-style-type: none"> • how to extend your ability to work with powers of 10 • when to make suitable rounding and how to use rounded numbers to estimate the results of 	EOC 9: Decimal Numbers <ul style="list-style-type: none"> • Powers of 10 • Standard form • Rounding appropriately



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<p>HALF TERM 4</p>	<p>CH 10: Prisms and cylinders</p>	<ul style="list-style-type: none"> calculations how to use your calculator efficiently 	<ul style="list-style-type: none"> Mental Calculations Solving problems <p>EOC 10: Prisms and cylinders</p> <ul style="list-style-type: none"> Metric units for area and volume Volume of a prism Surface area of a prism Volume of a cylinder Surface area of a cylinder
	<p>CH 11: Solving equations graphically</p>	<ul style="list-style-type: none"> how to convert from one metric unit to another for area and volume how to calculate the surface area and the volume of a prism how to calculate the surface area and the volume of a cylinder <ul style="list-style-type: none"> how to solve linear equations graphically how to draw a quadratic graph how to solve quadratic equations graphically how to solve simultaneous equations graphically 	<p>EOC 11: Solving equations graphically</p> <ul style="list-style-type: none"> Graphs from equations in the form $ay \pm bx = c$ Graphs from quadratic equations Solving quadratic equations by drawing graphs Solving simultaneous equations by drawing graphs
	<p>CH 12: Compound units</p>	<ul style="list-style-type: none"> how to solve problems involving speed how to calculate and use density how to solve problems involving compound units how to calculate unit prices and use them to find value for money 	<p>EOC 12: Compound units</p> <ul style="list-style-type: none"> Speed More compound units Unit costs
<p>HALF TERM 5</p>	<p>CH 13: Right-angled triangles</p>	<ul style="list-style-type: none"> what trigonometric ratios are and how to recognise them in right-angled triangles 	<p>EOC 13: Right-angled triangles</p> <ul style="list-style-type: none"> Introduction to trigonometric ratios How to find trigonometric ratios of angles Using trigonometric ratios to find angles



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HALF TERM 6	CH 14: Revision	<ul style="list-style-type: none">• how to use trigonometry to calculate angles from two known sides in a right-angled triangle• how to find an unknown length in a right-angled triangle where all angles and one other length are known • help you to practise and revise topics covered in your current course• get you started on your GCSE course	<ul style="list-style-type: none">• Using trigonometric ratios to find lengths EOC 14: Revision<ul style="list-style-type: none">• Practice• Revision• GCSE-type question