



YEAR 7 CURRICULUM SUMMARY



SUBJECT: Mathematics

When ?	Chapter	Key Learning Objectives Key Questions	Unit Assessments (End of Chapter Test)
HALF TERM 1	CH 1: Working with numbers	<ul style="list-style-type: none">• how to multiply and divide negative numbers• how to find the highest common factor and the lowest common multiple of sets of numbers• how to use powers and find roots• how to find the prime factors of a number	EOC Test 1 covering <ul style="list-style-type: none">• Add, subtract, times, divide with negative numbers• HCF• LCM• Powers & roots• Prime factors
	CH 2: Geometry	<ul style="list-style-type: none">• how to identify parallel and perpendicular lines• how to work out angles in triangles and quadrilaterals• how to translate a shape• how to rotate a shape	EOC Test 2 covering <ul style="list-style-type: none">• Parallel & perpendicular lines• Angles in triangles and quadrilaterals• Translation & rotations
HALF TERM 2	CH 3: Probability	<ul style="list-style-type: none">• how to work with a probability scale• how to work with the probability of an event not happening• how to work out probabilities using sample spaces where necessary• how to collect data from a simple experiment and record it in a frequency table	EOC Test 3 covering <ul style="list-style-type: none">• Probability scales• Frequency tables• Sample spaces• Experimental probability



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	CH 4: Percentages	<ul style="list-style-type: none">• how to write one value as a percentage of another value• how to calculate a percentage increase or decrease• how to write a change of value as a percentage increase or decrease	EOC Test 4 covering <ul style="list-style-type: none">• Percentage of a number• Percentage increase & decrease• Percentage change
	CH 5: Sequences	<ul style="list-style-type: none">• how to use the special sequence of Fibonacci numbers• how to use algebra to represent function machines• how to use the nth term for sequences	EOC Test 5 covering <ul style="list-style-type: none">• Flow diagrams• N-th term of a sequence• Fibonacci sequence
	CH 6: Area	<ul style="list-style-type: none">• how to use a formula to work out the area of a rectangle• how to work out the area of a compound shape• how to use a formula to work out the area of a triangle• how to use a formula to work out the area of a parallelogram	EOC Test 6 covering <ul style="list-style-type: none">• Area of rectangles, compound shapes, triangles and parallelograms



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HALF TERM 3	CH 7: Graphs	<ul style="list-style-type: none">• how to draw graphs of linear equations• how to draw graphs of simple quadratic equations• how to draw graphs to illustrate real-life situations	EOC Test 7 covering <ul style="list-style-type: none">• Plot coordinates• Graphs from a table• Graph quadratics• Distance- time graphs
	CH 8: Simplifying Numbers	<ul style="list-style-type: none">• how to multiply and divide by 10, 100 and 1000• how to round numbers to one significant figure• how to estimate answers to problems• how to solve problems involving decimals	EOC Test 8 covering <ul style="list-style-type: none">• Powers of 10• Rounding• Significant figures• Std form• Problems using std form
HALF TERM 4	CH 9: Interpreting data	<ul style="list-style-type: none">• how to interpret pie charts• how to create simple pie charts• how to read information from different charts and diagrams	EOC Test 9 covering <ul style="list-style-type: none">• Drawing and interpreting pie charts



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HALF TERM 5	CH 10: Algebra	<ul style="list-style-type: none">• how to write and simplify expressions involving all four operations• how to simplify expressions that have a number of terms• how to multiply out brackets in algebraic expressions• how to identify equivalent expressions• how to write simple algebraic expressions involving powers	EOC 10 Test covering <ul style="list-style-type: none">• like terms• expand brackets• use powers
	CH 11: Congruence and Scaling	<ul style="list-style-type: none">• how to recognise congruent shapes• how to use shape and ratio• how to use scale diagrams	EOC 11 Test covering <ul style="list-style-type: none">• congruent shapes• ratio of length• map scales
	CH 12: Fractions and decimals	<ul style="list-style-type: none">• how to multiply a fraction by an integer• how to divide with unit fractions and integers• how to multiply by powers of ten• how to divide by powers of ten	EOC 12 Test covering <ul style="list-style-type: none">• add, subtract, times, divide fractions• long multiplication & division
	CH 13: Proportion	<ul style="list-style-type: none">• how to solve problems involving direct proportion• graphical and algebraic representations	



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<p>HALF TERM 6</p>		<p>of direct proportion</p> <ul style="list-style-type: none"> • how to solve problems involving inverse proportion • graphical and algebraic representations of inverse proportion 	<p>EOC 13 Test covering</p> <ul style="list-style-type: none"> • direct proportion • inverse proportion
	<p>CH 14: Circles</p>	<ul style="list-style-type: none"> • the names of the parts of a circle • how to work out the circumference of a circle by measuring • how to use a formula to work out the approximate length of the circumference 	<p>EOC 14 Test covering</p> <ul style="list-style-type: none"> • area and circumference of a circle • labels eg radius,
	<p>CH 15: Equations and Formulae</p>	<ul style="list-style-type: none"> • how to solve equations • how to substitute values into a variety of formulae 	<p>EOC 15 Test covering</p> <ul style="list-style-type: none"> • solve equations with brackets • equations with the variable on both sides • substitute into formulae
	<p>CH 16: Comparing data</p>	<ul style="list-style-type: none"> • how to construct grouped frequency tables for data • how to calculate a mean for discrete data • how to construct frequency diagrams for discrete data • how to compare two distributions by 	<p>EOC 16 Test covering</p> <ul style="list-style-type: none"> • Grouped frequency tables • Draw frequency diagrams • Comparing sets of data • Which average is best



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		using an average and the range	