



YEAR 9 CURRICULUM SUMMARY



When?		Key Learning Objectives Key Questions	Unit Assessment (End of Chapter Test)
HALF TERM I	Ch 1: Basic Number	 compare and order positive and negative numbers use the order of operations when calculating add, subtract, multiply and divide positive and negative integers and positive decimals without a calculator. 	EOC Test 1: Basic Number Compare & order integers, BIDMAS, +,-,×,÷ integers without a calculator
	Ch 5: Number: Number properties	 find multiples and factors I know what prime numbers are break a number down into its prime factors work out the lowest common multiple of two numbers work out the highest common factor of two numbers work out squares and square roots use a calculator for basic calculations. 	EOC Test 5: Number: Number properties Multiples, factors, primes, prime factors, LCM, HCF, squares & square roots, use calculator
HALF TERM 2	Ch 6: Number : Approximations	 round a number to a given accuracy estimate the answer to calculations by rounding find the limits of numbers rounded to a given accuracy work out the error interval due to rounding or truncation. 	EOC Test 6: Number : Approximations Round, estimate, limits of numbers after rounding, error intervals, truncation



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HALF TERM 3	Ch 7: Number: Decimals & fractions	 multiply and divide decimals convert between rational numbers, fractions and decimals find reciprocals of numbers and fractions work out one quantity as a fraction of another add, subtract, multiply and divide fractions, with and without a calculator. 	EOC Test 7: Number: Decimals & fractions \times, \div decimals, convert between rationals, fractions & decimals. Reciprocals, one quantity as a fraction of another, +, -, \times , \div fractions without a calculator
	Ch 3: Statistics: Charts, tables & averages	 use tally charts and frequency tables to collect and organise data represent data on various types of diagram draw a line graph to show trends in data work out the mode, median, mean and range of small sets of data decide which is the best average to use use an average and the range to compare sets of data draw and interpret stem-and-leaf diagrams 	EOC Test 3: Statistics: Charts, tables & averages Tally charts, frequency tables, line graph, mean, mode, median, range, best average?, compare, stem & leaf



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HALF TERM 4	Ch 4: Geometry & Measures: angles	 calculate angles on a line and around a point calculate angles in a triangle and in any polygon calculate angles in parallel lines calculate interior and exterior angles in polygons use bearings. 	EOC Test 4: Geometry & Measures: angles Angles on a line, around a point, in a triangle, in a polygon, in parallel lines, interior & exterior angles in polygons, bearings
	Ch 2: Geometry & Measures: measures & scale drawings	 convert from one metric unit to another convert from one imperial unit to another convert from imperial units to metric units read and draw scale drawings read map scales draw nets of 3D shapes and identify 3D shapes from their nets draw plans and elevations. 	EOC Test 2: Geometry & Measures: measures & scale drawings Convert metric & imperial, read & draw scale drawings, read map scales, know & recognise nets of 3D shapes, plans & elevations



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	9: Algebra: Expressions & nula	 simplify expressions by collecting like terms substitute numbers into expressions and formulae expand and factorise expressions expand two pairs of brackets factorise quadratic expressions rearrange formulae. 	EOC Test 9: Algebra: Expressions & formula Letters to represent numbers, form expressions, collect like terms, substitute, expand and factorise expressions, expand 2 pairs of brackets, factorise quadratics, rearrange formula
Ch 8	8: Algebra: Linear graphs	 plot negative coordinates work out the gradient of a line draw a straight-line graph from its equation work out the equation of a linear graph draw linear graphs parallel to other lines read information from a conversion graph use graphs to work out formulae and solve simultaneous linear equations. 	EOC Test 8: Algebra: Linear graphs Plot coordinates (negative), gradient of a line, draw line from equation, draw parallel line, conversion graph, solve simultaneous equations graphically



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HALF TERM 6	Ch 10: Ratio, proportion & rates of change: Ratio, speed and proportion	 know what a ratio is divide an amount in a given ratio calculate speed solve problems involving direct proportion compare prices of products. 	EOC Test 10 : Ratio, proportion & rates of change: Ratio, speed and proportion Know what a ratio is, divide in a given ratio, calculate speed, direct proportion, best prices
	Ch 11: Geometry & Measures: Perimeter & Area	 use letters to represent numbers form simple algebraic expressions work out the perimeters and areas of rectangles, triangles, parallelograms, trapeziums and compound shapes calculate the circumference and area of a circle and give your answers in terms of π. 	EOC Test 11: Geometry & Measures: Perimeter & Area Perimeter & area of rectangles, triangles, parallelograms, trapeziums and compound shapes, area and circumference of a circle including it terms of π