

Year 8	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Content	Prime numbers & proof - Prime factorisation - HCF, LCM Ratio & scale - Understand and use ratio notation - Divide in a ratio - Work out parts and wholes - Pi as a ratio - Circumference of a circle Multiplicative change - Conversion graphs - Direct proportion graphs - Understand and use scale factors - Scale diagrams and maps - Currency conversion - Similar shapes -	Multiplying & dividing fractions - Multiply and divide fractions Working in the cartesian plane - Using coordinates - Plotting linear graphs - exploring gradient Representing data - recognise different types of data - construct and interpret frequency tables, grouped and ungrouped and two-way tables - scatter graphs, line of best fit, correlation	Tables & probability - Construct sample spaces and use to find probabilities - Use tables and venn diagrams to find probabilities Brackets & Solving equations - Extend on year 7 coverage to include more complex expressions. - Expand and simplify expressions involving single brackets - Identify and use formulae, expressions, identities and equations. - Form and solve equations with brackets	Fractions & percentages - Percentage increase and decrease - Using multipliers - Express one quantity as a percentage of another, compare two quantities using percentages - Express one number as a fraction of another - Explore calculator and non-calculator methods - Work with percentages greater than 100% Standard index form - Revisit year 7 comparing and ordering - Write numbers of	Number sense - Revisit year 7 rounding - Round to given numbers of decimal places and standard form - Convert between units of time - Order of operations - Calculate with money - Use estimation - Metric unit conversions Angles in parallel lines & polygons - Angles in parallel lines - Interior and exterior angles of polygons - Find and prove simple geometric facts	Area of trapezia & circles - Area of trapezium, circle and compound shapes Line symmetry & reflection - Recognise line symmetry - Reflect shapes in a given line The data handling cycle - Collecting data - Multiple bar charts - Line graphs - Misleading graphs - Measures of location - Find the mode - Identify outliers - Compare distributions using statistical measures

