

YEAR 8 OVERVIEW – Maths

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
White Rose Maths - Year 8	Ratio and scale <ul style="list-style-type: none"> Understand ratio and its link to multiplication Use ratio notation Reduce ratios to simplest form Solve ratio problems Calculate the circumference of a circle Careers Lesson – Baker/Chef 	Working in Cartesian plane <ul style="list-style-type: none"> Plot and interpret straight line graphs Understand and use the equations of a straight line, including lines parallel to the axes Make links between direct proportion and straight lines of the form $y = kx$ Model situations by translating them into expressions, formulae and graphs 	Brackets, equations and inequalities <ul style="list-style-type: none"> Expand, and factorise into, single brackets Form and use expressions, formulae and identities Form and solve equations and inequalities with and without brackets Distinguish between equations, expressions, formulae and identities Careers Lesson – Construction 	Fractions and percentages <ul style="list-style-type: none"> Develop understanding of fractions, decimals and percentages Evaluate percentage increases and decreases Use multipliers to solve percentage problems Express one number as a percentage of another 	Angles in parallel lines and polygons <ul style="list-style-type: none"> Review y7 angle rules Understand and use parallel lines and angles Revisit geometric notation Work out angles in special quadrilaterals Find and use sum of interior and exterior angles in polygon Prove simple geometric facts 	Data handling cycle <ul style="list-style-type: none"> Understand and use primary and secondary source of data Collect data, including questionnaires Interpret and construct statistical diagrams, including multiple bar charts Construct and interpret pie charts Compare distributions using charts Identify misleading graphs
	Multiplicative change <ul style="list-style-type: none"> Use scale factors, linking ratio, to solve simple direct proportion problems Convert between currencies, including using graphs Draw and interpret scale diagrams and maps 	Representing data <ul style="list-style-type: none"> Draw and interpret scatter graphs Understand correlation Draw and use lines of best fit Understand grouped and ungrouped, discrete and continuous data Design and use one and two-way tables 	Sequences <ul style="list-style-type: none"> Generate sequences using more complex rules e.g. with brackets and squared terms, both in words and algebraically 	Standard form <ul style="list-style-type: none"> Convert between ordinary and standard form Compare numbers given in standard form Calculate with numbers given in standard form, with and without a calculator 	Area of trapezia and circles <ul style="list-style-type: none"> Review area of shapes covered in y7 Calculate the area of a trapezium Calculate the area of a circle, and parts of a circle Use of significant figures Calculate the area of compound shapes 	Measure and location <ul style="list-style-type: none"> Revisit median and mean, including finding the total given the mean Find the mean of grouped data Work out mode and modal class Choose the appropriate average Compare distributions using measures
	Multiplying and dividing fractions <ul style="list-style-type: none"> Multiply and divide a fraction by an integer Multiply and divide a fraction by a fraction Understand and use reciprocal 	Tables & probability <ul style="list-style-type: none"> List outcomes using sample space diagrams for one and two events Find probabilities using tables and Venn diagrams 	Indices <ul style="list-style-type: none"> Form expressions using indices Understand and use the addition and subtraction rules 	Number sense <ul style="list-style-type: none"> Develop mental strategies Convert between metric measures and units Estimation, including rounding to a given number of decimal places Use the order of operations Careers Lesson – Buyer 	Line symmetry and reflection <ul style="list-style-type: none"> Recognise line symmetry in polygons and other shapes Reflect shapes in horizontal, vertical and diagonal lines 	Straight line graphs <ul style="list-style-type: none"> Interpret straight line graphs Find and use equation of a straight line