

Year 8	Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Topic	<u>Proportional Reasoning</u> Ratio & Scale Ratio notation, simplifying ratio Dividing in a given ratio Multiplying & Dividing Fractions Multiplying fractions & mixed numbers Dividing fractions & mixed numbers <u>Representations</u> Tables & Probability Sample space diagrams Venn diagrams & Two - way tables Product rule Representing Data Scatter graphs & correlation Lines of best fit Grouped & ungrouped frequency tables	<u>Proportional Reasoning</u> Multiplicative Change Direct proportion Convert between currencies Similar shapes & scale factors <u>Exam Week & Revision</u> <u>Representations</u> Working in the Cartesian Plane Coordinates Straight line graphs Non-linear graphs Midpoint of a line segment	<u>Algebraic Techniques</u> Sequences Generate sequences given a rule Generate sequences given an algebraic rule Find the nth term Brackets, equations & inequalities Simplifying algebraic terms Forming and solving equations Forming and solving inequalities <u>Developing Number</u> Fractions & Percentages Convert between fractions, decimals and percentages Percentages & fractions of amount Percentage increase & decrease Percentage change Reverse percentages	<u>Algebraic Techniques</u> Indices Add & subtract expressions with indices Index laws - multiplication & division Brackets, equations & inequalities Forming and solving inequalities <u>Developing Number</u> Number Sense Rounding Converting metric measures Standard Index Form Standard form for small & large numbers Calculating with standard form Negative and fractional indices	<u>Developing Geometry</u> Area of trapezia & circles Area of triangles, rectangles, parallelograms & trapezium Area of a circle Area and perimeter of compound shapes <u>Reasoning with Data</u> Measures of Location Mean, median, mode & range Finding mean from ungrouped table Estimating mean from grouped table Identify outliers Compare distributions using range and averages	<u>Developing Geometry</u> Angles in parallel line & polygons Angle rules & notation Alternate, corresponding & co-interior Interior & Exterior Angles Construction Line Symmetry & Reflection Recognise line symmetry Reflect shapes in a line <u>Reasoning with Data</u> The Data Handling Cycle Statistical enquiries & questionnaires Draw and interpret pictograms, bar charts, line graphs & pie charts Grouped quantitative data Compare data using graphs
	<u>End of Topic Tests</u> Ratio & Scale Ratio notation, simplifying ratio Dividing in a given ratio Multiplying & Dividing Fractions Multiplying and dividing fractions and mixed numbers Multiplying fractions & integers Dividing fractions & integers	<u>End of Topic Tests</u> Working in the Cartesian Plane Coordinates Straight line graphs Non-linear graphs Midpoint of a line segment <u>Exam Week</u>	<u>End of Topic Tests</u> Sequences Continuing sequences Nth term Linear & Non-linear sequences Fractions & Percentages Percentage multipliers Percentage of amounts Percentage increase & decrease Percentage Change Reverse Percentages	<u>End of Topic Tests</u> Number Sense Rounding Converting metric measures <u>End of Term Assessment</u> Covering all topics up to this point	<u>End of Topic Tests</u> Area of trapezia & circles Area of triangles, rectangles, parallelograms & trapezium Area of a circle Area and perimeter of compound shapes Measures of Location Mean, median, mode & range Finding mean from ungrouped table Estimating mean from grouped table Identify outliers Compare distributions using range and averages	<u>End of Topic Tests</u> The Data Handling Cycle Statistical enquiries & questionnaires Draw and interpret pictograms, bar charts, line graphs & pie charts Compare data using graphs <u>End of Year Assessment</u> Covering all topics up to this point
Link with National Curriculum	1. Become fluent in the fundamentals of mathematics. 2. Reason mathematically by following a line of enquiry. 3. Solving problems by applying mathematic skills.					