Mathematics Year 10 Long term plan 2020/2021

Autumn Term 1st Half		Autumn Term 2nd Half	
Unit 1: Number	Unit 2: Algebra	Unit3: Graphs, tables and charts	Unit4: Fractions and percentages
1.1 Calculations	2.1 Algebraic expressions	3.1 Frequency Tables	4.1 Working with fractions
1.2 Decimal numbers	2.2 Simplifying expressions	3.2 Two-way tables	4.2 Operations with fractions
1.3 Place value	2.3 Substitution	3.3 Representing data	4.3 Multiplying fractions
1.4 Factors and multiples	2.4 Formulae	3.4 Time series	4.4 Dividing fractions
1.5 Squares, cubes and roots	2.5 Expanding brackets	3.5 Stem and leaf diagrams	4.5 Fractions and decimals
1.6 Index notation	2.6 Factorising	3.6 Pie charts	4.6 Fractions and percentages
1.7 Prime factors	2.7 Using expressions and formulae	3.7 Scatter graphs	4.7 & 4.8 Calculating percentages
		3.8 Line of best fit	
Spring Term 1st Half		Spring Term 2nd Half	
Unit 5: Equations, Inequalities and sequences	Unit 6: Angles	Unit 7: Averages and range	Unit 8: Perimeter, Area and Volume 1
5.1 & 5.2 Solving equations	6.1 Properties of shapes	7.1 Mean and range	8.1 Rectangles, parallelograms and triangles
5.3 Solving equations with brackets	6.2 Angles in parallel lines	7.2 Mode, median and range	8.2 Trapezia and changing units
5.4 Introducing inequalities	6.3 Angles in triangles	7.3 Types of average	8.3 Area of compound shapes
5.5 More inequalities	6.4 & 6.5 Exterior and interior angles	7.4 Estimating the mean	8.4 Surface area of 3D solids
5.6 Using formulae	6.6 Geometrical problems	7.5 Sampling	8.5 Volume of prisms
5.7 Generating sequences			8.6 More volume and surface area
5.8 Using the nth term of a sequence			

Summer Term 1st Half		Summer Term 2nd Half	
Unit 9: Graphs 9.1 Coordinates 9.2 Linear graphs 9.3 Gradient 9.4 y = mx + c 9.5 Real-life graphs 9.6 Distance-time graphs 9.7 More real-life graphs	Unit 10: Transformations 10.1 Translation 10.2 Reflection 10.3 Rotation 10.4 Enlargement 10.5 Describing enlargements 10.6 Combining transformations	Unit 11: Ratio and Proportion 11.1 Writing ratios 11.2 Using ratios 11.3 Ratios and measures 11.4 Using ratios 2 11.5 Comparing using ratios 11.6 Using proportion 11.7 proportion and graphs 11.8 proportion problems	Unit12: Right-angled triangles 12.1 & 12.2 Pythagoras' theorem 12.3 & 12.4 The sine ratio 12.5 The cosine ratio 12.6 The tangent ratio 12.7 Finding lengths and angles using trigonometry

Subject to COVID-19 restrictions and guidelines