

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning covered this term:	1 Number	4 Fractions and percentages	6 Angles	9 Graphs	11 Ratio and proportion	13 Probability
	1.1 Calculations	4.1 Working with fractions	6.1 Properties of shapes	9.1 Coordinates	11.1 Writing ratios	13.1 Calculating probability
	1.2 Decimal numbers	4.2 Operations with fractions	6.2 Angles in parallel lines	9.2 Linear graphs	11.2 Using ratios 1	13.2 Two events
	1.3 Place value	4.3 Multiplying fractions	6.3 Angles in triangles	9.3 Gradient	11.3 Ratios and measures	13.3 Experimental probability
	1.4 Factors and multiples	4.4 Dividing fractions	6.4 Exterior and interior angles	9.4 $y = mx + c$	11.4 Using ratios 2	13.4 Venn diagrams
	1.5 Squares, cubes and roots	4.5 Fractions and decimals	6.5 More exterior and interior angles	9.5 Real-life graphs	11.5 Comparing using ratios	13.5 Tree diagrams
	1.6 Index notation	4.6 Fractions and percentages	6.6 Geometrical patterns	9.6 Distance-time graphs	11.6 Using proportion	13.6 More tree diagrams
	1.7 Prime factors	4.7 Calculating percentages 1	7 Averages and range	9.7 More real-life graphs	11.7 Proportion and graphs	14 Multiplicative reasoning
	2 Algebra	4.8 Calculating percentages 2	7.1 Mean and range	10 Transformations	11.8 Proportion problems	14.1 Percentages
	2.1 Algebraic expressions	5 Equations, inequalities and sequences	7.2 Mode, median and range	10.1 Translation	12 Right-angled triangles	14.2 Growth and decay
	2.2 Simplifying expressions	5.1 Solving equations 1	7.3 Types of average	10.2 Reflection	12.1 Pythagoras' theorem 1	14.3 Compound measures
	2.3 Substitution	5.2 Solving equations 2	7.4 Estimating the mean	10.3 Rotation	12.2 Pythagoras' theorem 2	14.4 Distance, speed and time
	2.4 Formulae	5.3 Solving equations with brackets	7.5 Sampling	10.4 Enlargement	12.3 Trigonometry: the sine ratio 1	14.5 Direct and inverse proportion
	2.5 Expanding brackets	5.4 Introducing inequalities	8 Perimeter, area and volume 1	10.5 Describing enlargements	12.4 Trigonometry: the sine ratio 2	15 Constructions, loci and bearings
	2.6 Factorising	5.5 More inequalities	8.1 Rectangles, parallelograms and triangles	10.6 Combining transformations	12.5 Trigonometry: the cosine ratio	15.1 3D solids
	2.7 Using expressions and formulae	5.6 More formulae	8.2 Trapezia and changing units		12.6 Trigonometry: the tangent ratio	15.2 Plans and elevations
	3 Graphs, tables and charts	5.7 Generating sequences	8.3 Area of compound shapes		12.7 Finding lengths and angles using trigonometry	15.3 Accurate drawings 1
	3.1 Frequency tables	5.8 Using the nth term of a sequence	8.4 Surface area of 3D solids			15.4 Scale drawings and maps
	3.2 Two-way tables		8.5 Volume of prisms			15.5 Accurate drawings 2
	3.3 Representing data		8.6 More volume and surface area			15.6 Constructions
3.4 Time series					15.7 Loci and regions	
3.5 Stem and leaf diagrams					15.8 Bearings	
3.6 Pie charts						
3.7 Scatter graphs						
3.8 Line of best fit						
Assessment will be	Pre and post topic test.	Pre and post topic test. Term 1 assessment 60 min. 16 question written test out of 50 marks	Pre and post topic test.	Pre and post topic test. Term 2 assessment 60 min. 17 question written test out of 50 marks	Pre and post topic test.	Pre and post topic test. Term 2 assessment 60 min. 16 question written test out of 50 marks
	End of year exam. – 3 papers 1½ hours 80 marks each. 1x non-calculator, 2x Calculator					
Revision & How to prepare	Link to Frog for resources/websites to revise websites. online– Mymaths, Pixl maths app, samlearning corbettmaths. Mathsgenie,. mathswatch, all have online activities with worksheets paired for self assessment					
Further Reading	Names of texts Pearsons- GCSE 9-1 Foundation http://www.pearsonschoolsandfecolleges.co.uk/Secondary/Mathematics-support/Schemes-of-Work/GCSE-Schemes-of-Work.aspx 2 year GCSE 9-1 Scheme of Work, foundation GCSE					

	Autumn Term 1	Autumn Term 2	Spring Term 1	Spring Term 2	Summer Term 1	Summer Term 2
Key Learning covered this term:	1 Number	4 Fractions, ratio and percentages	6 Graphs	9 Equations and inequalities	11 Multiplicative reasoning	14 Further statistics
	1.1 Number problems and reasoning	4.1 Fractions	6.1 Linear graphs	9.1 Solving quadratic equations 1	11.1 Growth and decay	14.1 Sampling
	1.2 Place value and estimating	4.2 Ratios	6.2 More linear graphs	9.2 Solving quadratic equations 2	11.2 Compound measures	14.2 Cumulative frequency
	1.3 HCF and LCM	4.3 Ratio and proportion	6.3 Graphing rates of change	9.3 Completing the square	11.3 More compound measures	14.3 Box plots
	1.4 Calculating with powers (indices)	4.4 Percentages	6.4 Real-life graphs	9.4 Solving simple simultaneous equations	11.4 Ratio and proportion	14.4 Drawing histograms
	1.5 Zero, negative and fractional indices	4.5 Fractions, decimals and percentages	6.5 Line segments	9.5 More simultaneous equations	12 Similarity and congruence	14.5 Interpreting histograms
	1.6 Powers of 10 and standard form	5 Angles and trigonometry	6.6 Quadratic graphs	9.6 Solving linear and quadratic simultaneous equations	12.1 Congruence	14.6 Comparing and describing populations
	1.7 Surds	5.1 Angle properties of triangles and quadrilaterals	6.7 Cubic and reciprocal graphs	9.7 Solving linear inequalities	12.2 Geometric proof and congruence	15 Equations and graphs
	2 Algebra	5.2 Interior angles of a polygon	6.8 More graphs	10 Probability	12.3 Similarity	15.1 Solving simultaneous equations graphically
	2.1 Algebraic indices	5.3 Exterior angles of a polygon	7 Area and volume	10.1 Combined events	12.4 More similarity	15.2 Representing inequalities graphically
	2.2 Expanding and factorising	5.4 Pythagoras' theorem 1	7.1 Perimeter and area	10.2 Mutually exclusive events	12.5 Similarity in 3D solids	15.3 Graphs of quadratic functions
	2.3 Equations	5.4 Pythagoras' theorem 1	7.2 Units and accuracy	10.3 Experimental probability	13 More trigonometry	15.4 Solving quadratic equations graphically
	2.4 Formulae	5.6 Trigonometry 1	7.3 Prisms	10.4 Independent events and tree diagrams	13.1 Accuracy	15.5 Graphs of cubic functions
	2.5 Linear sequences	5.7 Trigonometry 2	7.4 Circles	10.5 Conditional probability	13.2 Graph of the sine function	
	2.6 Non-linear sequences		7.5 Sectors of circles	10.6 Venn diagrams and set notation	13.3 Graph of the cosine function	
	2.7 More expanding and factorising		7.6 Cylinders and spheres		13.4 The tangent function	
	3 Interpreting and representing data		7.7 Pyramids and cones		13.5 Calculating areas and the sine rule	
	3.1 Statistical diagrams 1		8 Transformations and constructions		13.6 The cosine rule and 2D trigonometric problems	
	3.2 Time series		8.1 3D solids		13.7 Solving problems in 3D	
	3.3 Scatter graphs		8.2 Reflection and rotation		13.8 Transforming trigonometric graphs 1	
	3.4 Line of best fit		8.3 Enlargement		13.9 Transforming trigonometric graphs 2	
	3.5 Averages and range		8.4 Transformations and combinations of transformations			
	3.6 Statistical diagrams 2		8.5 Bearings and scale drawings			
			8.6 Constructions 1			
			8.7 Constructions 2			
			8.8 Loci			
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Further Reading	Names of texts Pearsons- GCSE 9-1Higher http://www.pearsonschoolsandcolleges.co.uk/Secondary/Mathematics-support/Schemes-of-Work/GCSE-Schemes-of-Work.aspx 2 year GCSE 9-1 Scheme of Work, Higher GCSE					

