

Term	Week	YEAR 10: 2017-18	Topic break-down (sub-topics)
Autumn 1	1	Basic Number	1.1 Solving real-life problems 1.2 Multiplication and division with decimals
	2	Baseline testing	
	3	Basic Number	1.3 Approximation of calculations 1.4 Multiples, factors, prime numbers, powers and roots
	4	Fractions, ratios and proportions	2.1 One quantity as a fraction of another 2.2 Adding, subtracting and calculating with fractions 2.3 Multiplying and dividing fractions
	5	Fractions, ratios and proportions	2.5 Increasing and decreasing quantities by a percentage 2.6 Expressing one quantity as a percentage of another
	6	ASSESSMENT WEEK	
	7	RE-TEACH	
Half term – two weeks			
Autumn 2	1	Statistical diagrams and averages	3.1 Statistical representation 3.2 Statistical measures 3.3 Scatter diagrams
	2	Number and sequences	4.1 Patterns in number 4.2 Number sequences 4.3 Finding the nth term of a linear sequence 4.4 Special sequences
	3	Number and sequences	4.5 General rules from given patterns 4.6 The nth term of a quadratic sequence 4.7 Finding the nth term for quadratic sequences
	4	Ratio and proportion	5.1 Ratio 5.2 Direct proportion problems 5.3 Best buys
	5	Ratio and proportion	5.5 Compound interest and repeated percentage change 5.6 Reverse percentage (working out the original)
	6	ASSESSMENT WEEK	
	7	RE-TEACH	
End of term – two weeks			
Spring 1	1	Angles	6.1 Angle facts 6.2 Triangles 6.3 Angles in a polygon 6.4 Regular polygons
	2	Angles	6.5 Angles in parallel lines 6.6 Special quadrilaterals 6.7 Scale drawings and bearings
	3	Transformations, constructions and loci	7.1 Congruent triangles 7.2 Rotational symmetry 7.3 Transformations 7.4 Combinations of transformations
	4	Transformations, constructions and loci	7.5 Bisectors 7.6 Defining a locus 7.7 Loci problems 7.8 Plans and elevations
	5	ASSESSMENT WEEK	
	6	RE-TEACH	

Half term – one week			
Spring 2	1	Algebraic manipulation	8.1 Basic algebra 8.2 Factorisation 8.3 Quadratic expansion 8.4 Expanding squares
	2	Algebraic manipulation	8.5 More than two binomials 8.6 Quadratic factorisation 8.7 Factorising $ax^2 + bx + c$ 8.8 Changing the subject of a formula
	3	Length, area and Volume	9.1 Circumference and area of a circle 9.2 Area of a parallelogram 9.3 Area of a trapezium 9.4 Sectors 9.5 Volume of a prism
	4	Length, area and Volume	9.6 Cylinders 9.7 Volume of a pyramid
	5	Length, area and Volume	9.8 Cones 9.9 Spheres
End of term - two weeks			
Summer 1	1	Linear graphs	10.1 Drawing linear graphs from points 10.2 Gradient of a line 10.3 Drawing graphs by gradient-intercept and cover-up
	2	Linear graphs	10.4 Finding the equation of a line from its graph 10.5 Real-life uses for graphs 10.6 Solving simultaneous equations using graphs
	3	Right-angled triangles	11.1 Pythagoras' theorem 11.2 Finding the length of the shorter side 11.3 Applying Pythagoras' theorem in real-life situations 11.4 Pythagoras' theorem and isosceles triangles 11.5 Pythagoras' theorem in three dimensions 11.6 Trigonometric ratios
	4	Right-angled triangles	11.7 Calculating angles 11.8 Using the sine and cosine functions 11.9 Using the tangent function 11.10 Which ratio to use 11.11 Solving problems using trigonometry 11.12 Trigonometry and bearings 11.13 Trigonometry and isosceles triangles
	5	ASSESSMENT WEEK	
	6	RE-TEACH	
Half term – one week			
Summer 2	1	Similarity	12.1 Similar triangles 12.2 Areas and volumes of similar shapes
	2	Exploring and applying probability	13.1 Experimental probability 13.2 Mutually exclusive events and exhaustive outcomes 13.3 Expectation
	3	Exploring and applying probability	13.4 Probability and two-way tables 13.5 Probability and Venn diagrams
	4	Powers and standard form	14.1 Powers (indices) 14.2 Rules for multiplying and dividing powers
	5	Powers and standard form	14.3 Standard form
	6	ASSESSMENT WEEK	
	7	RE-TEACH	