

Summary Year 10 Higher

		G	A	R
Basic Number	1.1 Solving real life problems			
	1.2 Multiplication and division with decimals			
	1.4 Multiples, factors, prime numbers, powers and roots			
	1.5 Prime factors, LCM and HCF			
	1.6 Negative numbers			
Fractions, Ratio and Proportion	2.1 One quantity as a fraction of another			
	2.2 Adding, subtracting and calculating with fractions			
	2.3 Multiplying and dividing fractions			
	2.4 Fractions on a calculator			
	2.5 Increasing and decreasing quantities by a percentage			
	2.6 Expressing one quantity as a percentage of another			
3: Statistical diagrams and averages	3.1 Statistical representation			
	3.2 Statistical measures			
	3.3 Scatter diagrams			
4: Number and sequences	4.1 Patterns in number			
	4.2 Number sequences			
	4.3 Finding the n th term of a linear sequence			
	4.4 Special sequences			
	4.5 General rules from given patterns			
	4.6 The n th term of a quadratic sequence			
	4.7 Finding the n th term for quadratic sequences			
5: Ratio and Proportion	5.1 Ratio			
	5.2 Direct proportion problems			
	5.3 Best buys			
	5.4 Compound measures			
	5.5 Compound interest and repeated percentage change			
	5.6 Reverse percentage (working out the original amount)			
16: Counting, accuracy, powers and surds	1.3 Approximation of calculations			
	16.1 Rational numbers, reciprocals, terminating and recurring decimals			
	16.2 Estimating powers and roots			
	16.3 Negative and fractional powers			
	16.4 Surds			
6 Angles	6.7 Scale drawings and bearings			

11: Right-angled triangles	11.1 Pythagoras' theorem			
	11.2 Finding the length of a shorter side			
	11.3 Applying Pythagoras' theorem in real-life			
	11.4 Pythagoras' theorem and isosceles triangles			
	11.5 Pythagoras' theorem in three dimensions			

9: 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			
	9.6 Cylinders			
	9.7 Volume of a pyramid			
	9.8 Cones			
	9.9 Spheres			

8: Algebraic manipulation	8.1 Basic algebra			
	8.2 Factorisation			
	8.3 Quadratic expansion			
	8.4 Expanding squares			
	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			

6: Angles	6.1 Angle facts			
	6.2 Triangles			
	6.3 Angles in a polygon			
	6.4 Regular polygons			
	6.5 Angles in parallel lines			
	6.6 Special quadrilaterals			

10: 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 methods			
	10.4 Finding the equation of a line from its graph			
	10.5 Real-life uses of graphs			
	10.6 Solving simultaneous equations using graphs			
	10.7 Parallel and perpendicular lines			

7: Transformations, constructions and loci	7.1 Congruent triangles			
	7.2 Rotational symmetry			
	7.3 Transformations			
	7.4 Combinations of transformations			
	7.5 Bisectors			
	7.6 Defining a locus			
	7.7 Loci problems			

	7.8 Plans and elevations			
12: Similarity	12.1 Similar triangles			
11: Trigonometry	11.6 Trigonometric ratios			
	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			
15: Equations and inequalities	15.1 Linear equations			
	15.2 Elimination method for simultaneous equations			
	15.3 Substitution method for simultaneous equations			
	15.4 Balancing coefficients to solve simultaneous			
	15.5 Using simultaneous equations to solve problems			
4: Sequences	4.7 Finding the n th term for quadratic sequences			