



YEAR 9 MATHEMATICS

No	Topic	Textbook	CATs
1	Area of Shapes and Compound Area <i>Understand and use metric units of area; Calculate perimeters and areas of rectangles and squares; Calculate the areas of triangles and parallelograms; Calculate perimeters and areas of compound shapes; Understand the use of square roots; Find missing measurements given the area.</i>	1	CAT 1 - Homework (Topic 1)
2	Averages from a Frequency Table <i>Calculate the three averages (mean, median & mode) from a frequency table; Decide which average is the best to use; Compare different sets of data; Calculate and understand range.</i>	1	CAT 2 - Homework (Topic 2)
3	Algebra 1 - Equations <i>Simplify algebraic expressions; Form equations from written information; Solve equations with x on both sides.</i>	1	CAT 3 - Test (Topic 3)
4	3D Shapes and Volume <i>Draw cubes and cuboids on isometric paper; Draw nets of cubes & cuboids; Understand and use plans and elevations; Calculate volume of cubes & cuboids; Change units of volume.</i>	1	WINTER EXAM
WINTER EXAMINATION (Topics 1 - 4)			
5	Polygons <i>Recognise and name polygons; Understand and use interior and exterior angles; Calculate missing angles in polygons; Understand tessellations.</i>	1	CAT 4 - Homework (Topic 5)
6	Standard Form, Indices and Significant Figures <i>Understand and use index notation and the laws of indices, including zero and negative indices; Change between standard form and ordinary numbers; Round numbers to significant figures & decimal places.</i>	2	CAT 5 - Test (Topic 6)

7	Fractions - Multiplication and Division <i>Multiply whole numbers, fractions and mixed numbers by one another; Divide by a fraction or mixed number; Understand and use the term reciprocal.</i>	2	
8	Probability and Possibility Spaces <i>Calculate the probability of an event <u>not</u> happening; Draw a possibility space; Use a possibility space to calculate probabilities.</i>	2	CAT 6 - Test (Topics 7 and 8)
9	Algebra 2 - Expanding Brackets and Solving Equations <i>Multiply out brackets, including negative terms; Solve equations involving brackets; Construct and use simple algebraic formulae using brackets.</i>	2	CAT 7 - Homework (Topic 9)
10	Fractions and Percentages <i>Find fraction and percentages of quantities; Write one quantity as a fraction of another; Change between percentages, decimals and fractions; Perform calculations involving percentage change.</i>	2	CAT 8 - Test (Topic 10)
SUMMER EXAMINATION (Topics 1 - 10)			
11	Data Handling - Scatter Graphs, Two-Way Tables, Flow Charts and Distance Charts <i>Draw a scatter graph; Draw a line of best fit and understand what it means; Understand and recognise the different types of correlation; Understand and use two-way tables; Understand and use flow charts; Understand and use distance charts.</i>	2	