Mathematics
(GCSE)

Welcome to the Mathematics Therapies. Please log on to http://www.mathswatchvle.com and watch the appropriate clip:

Therapy	Clip Number
• Number	• Place Value clip 1
	• Adding integers and decimals clip 17
	• Subtracting integers and decimals clip 18
	• Multiplying integers and decimals clip 19
	• Dividing integers and decimals clip 20
	• Negative Numbers clip 68a
	• Index notation clip 82
	• Rounding clip 32 and 90
	• Adding and subtracting fractions clip 71
	• Multiplying fractions clip 73
	• Dividing fractions clip 74
	• Estimation and approximation clip 91
	• Calculator methods clip 77
	• Fractions, percentages, decimals clip 85
	• Fractional indices clip 188
	• Negative indices clip 154
	• Percentages of an amount clips 86 and 87
	• Reverse percentage problems clip 110
	• Calculating with standard form clip 83
	• Compound interest clip 164
	• Surds clips 207a, 207b and 207c
• Ratio and Proportion	• Sharing into a ratio clip 106
	• Direct & inverse proportion clip 199
	• Percentage change clip 109
• Algebra	• Simplifying expressions clips 33 and 34
	• Expanding and simplifying brackets clips 134a and 134b
	• Substitution clip 95
	• Finding the nth term clip 103

	• Finding the nth term of a quadratic sequence [clip 213](#)
	• Solving equations [clip 135a](#)
	• Solving quadratic equations [clip 157](#)
	• Solving linear inequalities [clip 139](#)
	• Equation of a straight line [clip 159a](#)
	• Forming formulae and equations [clip 137](#)
	• Rearranging formulae [clip 136](#)
	• Algebraic proof [clip 193](#)
	• Algebraic fractions [clip 210](#)
	• Functions [clip 99](#)
	• Inverse functions [clip 214a](#)
	• Simultaneous equations [clip 162](#)
	• Recognising graphs [clips 98](#) & [161](#)
	• Velocity-time graphs [clip 216](#)
	• Transformation of graphs [clip 196a](#)
	• Trigonometric graphs [clip 195a](#) and [195b](#)
• Shape and Measure	• Metric conversions [clip 112](#)
	• Area of 2D shapes [clips 53](#), [54](#) and [55](#)
	• Perimeter of 2D shapes [clip 52](#)
	• Angle sum of polygons [clip 123](#)
	• Angles in parallel lines [clip 120](#)
	• Area of a circle [clip 117](#)
	• Sector area [clip 167](#)
	• Volume of a prism [clip 119](#)
	• Constructions [clip 146a](#) and [146b](#)
	• Pythagoras' Theorem [clip 150](#)
	• Vectors [clip 219](#)
	• Similar Shapes [clip 144](#)
	• Circle Theorems [clip 183](#)
	• Transformations [clip 182](#)
	• Surface Area [clip 114a](#)
	• Volume of Spheres [clip 169](#)
	• Congruence [clip 12b](#)
	• Trigonometry [clip 168](#)
	• Advanced trigonometry [clip 201](#) and [202](#)

• Probability and Statistics	• Calculating probabilities clip 59
	• Sampling clip 152
	• Averages clip 62
	• Averages from frequency tables clip 130a and 130b
	• Two-way tables clip 61
	• Bar charts clip 15
	• Scattergraphs clip 129
	• Drawing and interpreting pie charts clip 128a
	• Cumulative frequency clip 186
	• Stratified sampling clip 176
	• Box plots clip 187
	• Probability tree diagrams clip 151 and 175
	• Sets & Venn Diagrams clip 127a