

Mathematics – Year 10 - higher

Topic	Resources
Solving quadratic equations Inequalities Simultaneous equations	https://www.piximaths.co.uk/solving-quadratic-equations https://www.piximaths.co.uk/introduction-to-inequalities https://www.piximaths.co.uk/solving-quadratic-equations https://www.piximaths.co.uk/simultaneous-equations
Probability experiments Mutually exclusive events Sets Possibility spaces Tree diagrams Conditional probability	https://www.piximaths.co.uk/introduction-to-probability https://www.piximaths.co.uk/frequency-trees-and-systematic-listing https://www.piximaths.co.uk/frequency-trees-and-systematic-listing https://www.piximaths.co.uk/frequency-trees-and-systematic-listing https://www.piximaths.co.uk/probability-trees https://www.piximaths.co.uk/frequency-trees-and-systematic-listing
Direct and inverse proportion Compound measures Proportional change	https://www.piximaths.co.uk/proportion https://www.piximaths.co.uk/compound-measures https://www.piximaths.co.uk/proportion
Similarity & congruence in 2D and 3D Sine rule Cosine rule Pythagoras in 3D Trigonometry in 3D Trigonometric graphs Accuracy and bounds	https://www.piximaths.co.uk/proving-similarity-and-congruence https://www.piximaths.co.uk/sineandcosinerule https://www.piximaths.co.uk/sineandcosinerule https://www.piximaths.co.uk/pythagoras-theorem https://www.piximaths.co.uk/sohcahtoa https://www.piximaths.co.uk/socahtao https://www.piximaths.co.uk/bounds

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Frequency diagrams	https://www.piximaths.co.uk/frequency-polygons
Histograms	https://www.piximaths.co.uk/histograms
Averages from grouped data	https://www.piximaths.co.uk/averages-from-frequency-tables
Cumulative frequency graphs	https://www.piximaths.co.uk/cumulative-frequency-and-box-plots
Box plots	https://www.piximaths.co.uk/cumulative-frequency-and-box-plots
Scattergraphs	https://www.piximaths.co.uk/scattergraphs
Time series graphs	https://www.piximaths.co.uk/time-series-graphs
Recap Year 9 Work	Place Value Addition Subtraction Multiplication Division Factors & multiples Powers Prime factor decomposition Highest common factor Lowest common multiples Rounding Standard form Indices Surds
	Terms and expressions Simplifying expressions Expanding – single brackets Expanding – double brackets Factorising – single brackets factorising – double brackets Solving linear equations
	Sequences
	Inequalities

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Two way tables Stem and leaf diagrams Bar charts Pie charts Scatter graphs Averages and range
Find a fraction of an amount Find a percentage of an amount Decimals and fractions Fractions and percentages Adding and subtracting fractions Multiply fractions Divide fractions
Proportion Ratio
Angles and lines Parallel lines Triangles and quadrilaterals Congruence and similarity Polygons – angles in
Pythagoras Trigonometry
Equation of a straight line Real life graphs Linear, quadratic, kinematic and cubic graphs Equation of a circle Rates of change Area under graphs

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Perimeter, area and volume

Surface area

Circles

Arcs and sectors

Cylinders

Spheres

Cones

Accuracy and bounds