

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