

Mathematics – Year 10 - foundation

Topic	Resources
Algebraic terminology and proofs	https://www.piximaths.co.uk/simplifying-and-substituting
Collecting like terms in sums and differences of terms	https://www.piximaths.co.uk/simplifying-and-substituting
Expanding brackets	https://www.piximaths.co.uk/expanding-brackets
Factorising	https://www.piximaths.co.uk/factorising
Change the subject of a formula	https://www.piximaths.co.uk/formula
Solving linear equations	https://www.piximaths.co.uk/solving-linear-equations
Quadratic equations	https://www.piximaths.co.uk/solving-quadratic-equations
Simultaneous equations	https://www.piximaths.co.uk/solving-simultaneous-equations
Inequalities	https://www.piximaths.co.uk/introduction-to-inequalities
Functions	https://www.piximaths.co.uk/functions
Sequences	https://www.piximaths.co.uk/nth-term https://www.piximaths.co.uk/arithmic-sequences
x- and y-coordinates	https://www.piximaths.co.uk/coordinates
Graphs of equations	https://www.piximaths.co.uk/equations-of-graphs
Plotting straight line graphs	https://www.piximaths.co.uk/straight-line-graphs
Parallel and perpendicular lines	https://www.piximaths.co.uk/parallel-lines
Real life graphs	https://www.piximaths.co.uk/real-life-graphs
Gradients	https://www.piximaths.co.uk/gradients

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2D and 3D shapes

Angles

Polygons

3D solids

Drawing and measuring lines and angles

Constructions

Loci

<https://www.piximaths.co.uk/2D-and-3D-shapes>

<https://www.piximaths.co.uk/angles>

<https://www.piximaths.co.uk/polygons>

<https://www.piximaths.co.uk/2d-and-3D-shapes>

<https://www.piximaths.co.uk/angles>

<https://www.piximaths.co.uk/lines-and-angles>

<https://www.piximaths.co.uk/constructions>

<https://www.piximaths.co.uk/loci>

Angles at a point

Angles on a line

Angles between intersecting and parallel lines

Angles in polygons

Properties of a triangle

Properties of quadrilaterals

Circles

Plans and elevations

<https://www.piximaths.co.uk/angles>

<https://www.piximaths.co.uk/angles>

<https://www.piximaths.co.uk/parallel-lines>

<https://www.piximaths.co.uk/angles-in-polygons>

<https://www.piximaths.co.uk/triangles>

<https://www.piximaths.co.uk/quadrilaterals>

<https://www.piximaths.co.uk/circles>

<https://www.piximaths.co.uk/plans-and-elevations>

Recap year 9 work

Four rules

Definitions and terms

Prime numbers

HCF and LCM

Priority of operations

Inverse operations

Equivalent fractions

Calculations with fractions

Fractions of a quantity

Decimals and fractions

Addition, subtraction and multiplication of decimals

Division of decimals

Percentage conversions

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Percentage calculations
Percentage change
Index notation
Calculation, estimation of powers and roots
Laws of indices
Standard form
Calculations with standard form
Exact calculations
Rounding
Estimation
Upper and lower bounds
Equivalent ratios
Division in a given ratio
Ratios and fractions
Solve ratio and proportion problems
Direct proportion
Inverse proportion
Growth and decay