Year 9 Mathematics



1 Non Calculator Fractions, Decimals and Percentages

Mixed fractions, reciprocals and reverse percentages



3 Transformations

Translations
Reflections
Rotation
Enlargements

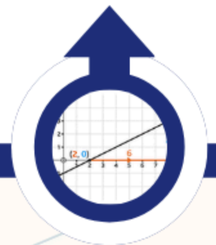


5 Angles and Similarity

Equivalent
Simplify
Polygons
Similar shapes

2 linear Graphs and Gradients

y=mx + c
Real life graphs



4 Non-calculator ratio and proportion

Multi-step reasoning
Direct proportion
Value for money



6 Pythagoras and Trigonometery

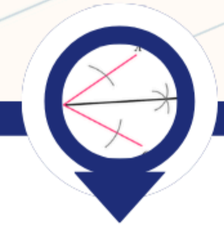
Finding sides and angles of triangles





… continued.

You'll strengthen your skills across the key areas of mathematics in Year 9. We start with non-calculator fractions, decimals & percentages, building confidence with equivalent forms and conversions. Next, we progress to linear graphs & gradients, exploring straight-line graphs, the gradient, and intercepts. We then look at percentages. This is followed by transformations — translations, reflections, rotations and enlargements. After that the focus moves on to ratio & proportion in non-calculator contexts, connecting to percentages. We also delve into angles & similarity, linking geometry and scale factors. Maps & constructions, introducing loci, bearings and basic constructions to complete the year.



Maps and Constructions

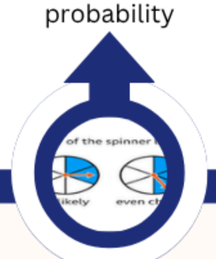
Using compasses
Loci
Planes and elevations
Bearings

8

7

Probability

Experimental
Listing outcomes
Product rule
Venn diagrams
Conditional probability



9

Percentages (calculator)

Fraction of an amount
Percentage change
Compound interest

