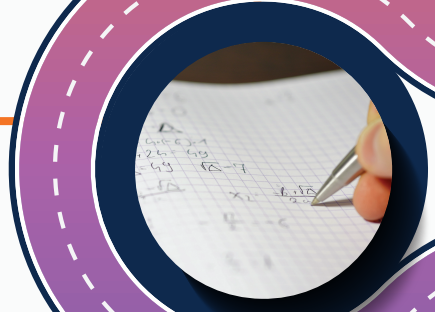
MATHEMATICS

How are quadratic graphs and bearings used in the wider world? How can shapes be transformed? Where in the wider world does similarity and congruence occur?

- Similarity and Congruence
- Plotting and interpreting quadratic graphs
- Transforming shapes
- Angles and bearings

How is data presented and used in scatter graphs? Why is it useful to group certain data?

- Column vectors
- Project on Sports Data Handling
- Grouped data
- Scatter graphs
- Collecting and presenting data

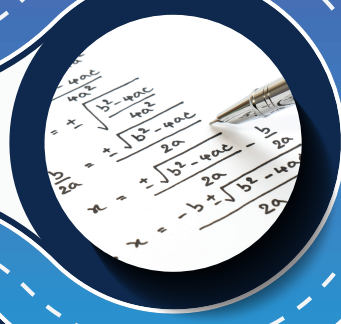


How are linear graphs, speed and rates and distance-time graphs connected to the wider world?

- Distance-Time graphs
- Speed and rates
- Equations of linear graphs

How can we use error intervals and 3D representations in the wider world? Where in the wider world is Pythagoras, ratio and proportion applied?

- Proportion word problems
- Ratio
- Pythagoras' Theorem in 2D
- Representations of 3D shapes
- Error intervals



How are quadratic equations solved? How can we rearrange formulae? How are constructions applied in the wider world?

- Circles and cylinders
- Position-to-term rules
- Constructing bisectors and perpendicular lines
- Rearranging formulae
- Factorising and solving quadratic equations

How can we use percentages and probability in the wider world? Can we calculate using standard form? How can inequalities be used in the wider world?

- Linear inequalities
- Calculations with standard form
- PTheoretical and experimental probability
- Percentage change
- Fractions, decimals and percentages review

YEAR 9