

Year 9

## MATHEMATICS

In Year 9 Maths girls are taught in sets according to ability.

- Curriculum Content
- Sequences and graphs
- Straight line graphs and simultaneous equations
- Algebra
- Pythagoras' Theorem
- Trigonometry
- Fractions and decimals, including lower and upper bands
- Indices and standard form
- Ratio and proportion
- Percentages – including the use of multipliers, compound interest and reverse percentages
- Collecting and representing data

Knowledge, skills and understanding

Girls will have the ability to:

- use and apply Mathematics in order solve problems
- check that solutions are sensible through approximation
- carry out calculations without the use of a calculator
- present data in suitable diagrams
- calculate the area and circumference of a circle
- calculate simple probabilities
- calculate angles and sides of right-angled triangles
- solve equations and simultaneous equations
- Knowledge and understanding of:
  - Pythagoras' theorem
  - the ratios in trigonometry
  - enlargement
  - similarity
  - simple transformations
  - symmetry

Assessment Opportunities

The girls are formally assessed three times between September and May.

There is an end of year exam, which assesses the work covered throughout the year.