

MATHEMATICS

Autumn Term Topics

Starters

A range of introductory activities linked with topics during the year, including quizzes, mystery challenges and the use of interactive and student whiteboards.

ICT

ICT will be used regularly with all groups (a minimum of once every two weeks) to support the scheme of work and develop students' use of independent and e-Learning

Algebra

- Sequences
- Powers and roots
- Like terms
- Expanding brackets

Number

- Highest common factors
- Lowest common multiples
- Fractions and decimals
- Percentage increases and decreases

Shape, Space and Measures

- Angles
- Geometric proof
- Areas
- Volumes
- Imperial Units

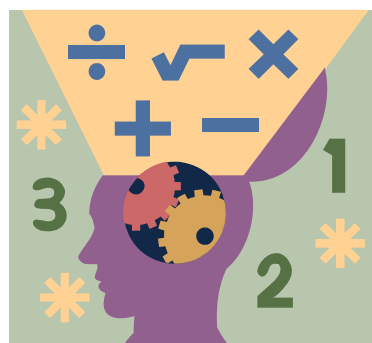
Handling Data

- Probability

Spring Term Topics

Algebra

- Linear functions
- Graphs
- Real life graphs
- Solving equations
- Substitution



Number

- Rounding
- Powers of 10
- Estimating
- Decimals
- Adding and subtracting fractions

Shape Space Measures

- Congruent shapes
- Transformations
- Enlargements

Handling Data

- Presenting data
- Scatter graphs



Summer Term

Algebra

- Simplifying expressions
- Constructing equations
- Solving equations

Number

- Using fractions and decimals to solve problems.

Shape Space Measures

- Plans and elevations
- Scale drawings
- Constructions

Handling Data

- Frequency tables
- Averages
- Frequency diagrams

Homework tasks:

A variety of practice exercises, investigational work, research, practical work and internet resources all based on classwork.

Additional resources:

Every student requires a calculator, angle measurer and compasses. A “dry wipe” whiteboard pen is also of benefit.