Mathematics
Year 9

Irlam and Cadishead Academy
The best in everyone™
Part of United Learning

OVERVIEW

In the Year 9 curriculum students study topics from four key strands of mathematics: Number, Algebra, Geometry and Ratio & Proportion. Each strand builds on their prior learning from Year 7, Year 8 and the primary curriculum. We focus on developing knowledge and skills in each of the four strands which students will then build on to solve problems and exhibits their mathematical reasoning.

Autumn

Half Term 1
- Decimal Manipulation
- Estimation and limits of accuracy
- Related calculations
- HCF and LCM of large numbers
- Fraction calculations

Half Term 2
- Algebraic manipulation
- Index laws
- Standard form
- Expanding and Factorising

Assessment:

Continuous assessment every lesson using questioning, mini whiteboards and marking of independent work.

End of Topic Tests

Personal development:

Spring

Half Term 3
- Forming expressions and substitution
- Direct and inverse proportion
- Probability

Half Term 4
- Solving equations
- Inequalities
- Sequences

Assessment:

Continuous assessment every lesson using questioning, mini whiteboards and marking of independent work.

End of Topic Tests

Mid-year summative assessment

Personal development:

Summer

Half Term 5
- Pythagoras
- Interior and exterior angles
- Vectors
- Transformations

Half Term 6
- Plans and elevations
- Arcs and sectors
- Surface area
- Catch-up
- Intervention and Boost

Assessment:

Continuous assessment every lesson using questioning, mini whiteboards and marking of independent work.

End of Topic Tests followed by DIRT tasks (whole-class feedback)

End of year summative assessments

Personal development:

Useful resources for supporting your child at home:

Videos on Sparx (www.sparxmaths.uk) Videos on Corbett Maths (Videos and Worksheets – Corbettmaths)

CGP KS3 revision guides/work books (KS3 Maths | CGP Books)

Homework:

Homework will be set on Sparx (www.sparxmaths.uk). Homework is set once a week on a Wednesday and is due the following week by 8.00am Tuesday. Students are expected to complete 100% of their homework each week. Homework is bespoke for all students depending on their performance in previous weeks. There is a 100% Club each Monday 3.00 – 4.00pm and a Sparx Catch-up each Tuesday 3.00 – 4.00pm.