FURNESS ACADEMY

MATHEMATICS CURRICULUM OVERVIEW

FURNESS ACADEMY

MATHEMATICS | YEAR 9

What will my child learn this year?

AUTUMN TERM

TOPICS: Decimals And Bounds • Percentages • Probability • Formulae • Congruence

WHAT STUDENTS LEARN: Calculate with decimals and bounds, percentage change and probability. Substitute into and rearrange formulae; identify congruent shapes.

SPRING TERM

TOPICS: Construction And Loci • Pythagoras' Theorem • Similarity And Enlargement • Trigonometry • Quadratics

WHAT STUDENTS LEARN: Use constructions and loci, Pythagoras' theorem, similarity and trigonometry to calculate unknown lengths and angles.

SUMMER TERM

TOPICS: Indices And Standard Form • Surds

WHAT STUDENTS LEARN: Apply indices and standard form to calculations; work with surds and connect algebraic methods to GCSE problems.

KEY SKILLS DEVELOPED

CALCULATE
Accurate methods and number fluency

REASON
Explain, justify and make connections

SOLVE
Apply strategies to unfamiliar problems

COMMUNICATE
Use notation, diagrams and mathematical language

PROGRESSION Connects earlier knowledge and prepares pupils for the depth and complexity of GCSE Mathematics.

ENRICHMENT Maths Circles, UKMT challenges, STEM competitions and national mathematics activities.