FURNESS ACADEMY

MATHEMATICS CURRICULUM OVERVIEW

FURNESS ACADEMY

MATHEMATICS | YEAR 7

What will my child learn this year?

AUTUMN TERM

TOPICS: Number (Calculation) • Types Of Numbers • Directed Number • Manipulating Expressions

WHAT STUDENTS LEARN: Build accurate written and mental calculation with whole numbers and decimals. Recognise factors, powers and negative numbers; simplify expressions and substitute values.

SPRING TERM

TOPICS: Rounding • Angles • 2D Shapes • Construction • Measures • Area and Perimeter

WHAT STUDENTS LEARN: Round and estimate accurately. Use angle facts, properties of 2D shapes and geometric constructions; convert measures and calculate area and perimeter.

SUMMER TERM

TOPICS: Factors, Multiples And Primes • Fractions • Ratio • Percentages

WHAT STUDENTS LEARN: Identify prime numbers, factors and multiples. Calculate with fractions and use ratio and percentages to compare and share quantities.

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 Builds on Key Stage 2 calculation and develops formal mathematical notation and reasoning.

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