FURNESS ACADEMY

MATHEMATICS CURRICULUM OVERVIEW

FURNESS ACADEMY

MATHEMATICS | YEAR 8

What will my child learn this year?

AUTUMN TERM

TOPICS: Linear Equations • Inequalities • Sequences • Coordinates And Graphs • Transformations

WHAT STUDENTS LEARN: Solve linear equations and inequalities. Generate sequences, plot and interpret straight-line graphs and describe transformations.

SPRING TERM

TOPICS: Circles • Volume • Surface Area • Averages • Representing Data

WHAT STUDENTS LEARN: Calculate circle measures, volume and surface area. Find averages and represent, compare and interpret data.

SUMMER TERM

TOPICS: Angles • Proportion • Compound Measures

WHAT STUDENTS LEARN: Apply angle rules, direct proportion and compound measures, including speed and other rates, to multi-step 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 Extends Year 7 number and algebra into equations, graphs, geometric reasoning and data.

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