

Mathematics

All students will sit a summative assessment at the end of each term to track progress – scores will be given as percentages. Throughout each term students will receive mini fluency quizzes once a fortnight to assess their knowledge and identify any gaps.

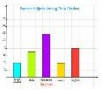
Year 8

End of Term Assessment

Skills
Calculate averages

Measuring data

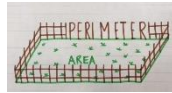
Presenting data



Skills
Read and draw graphs

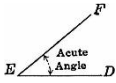
Mathematical Movement

Calculating space



Skills
Calculate unknown angles

Investigating angles



Skills
Working with units of measure



Measuring space

End of Term Assessment

Skills
Perimeter, area and volume

Solving equations

2, 4, 6, 8, 10, 12, 14

Pattern Sniffing

Skills
Introduction to transformations

By the end of term 3 students should be able to draw and recognise lines $y = x$, $y = -x$, $y = 3$ and $x = -2$ on a graph, calculate the surface area of cubes and cuboids

Skills
Writing and using algebra

Algebra - Tinkering



Exploring f/d/p

Skills
Calculate unknown values

Proportional reasoning

Skills
Work with sequences



Calculating f/d/p

By the end of term 2 students should be able to simplify algebraic expressions, expand brackets, substitute values into formulae, use 4 operations with fractions, understand proportion and solve simple equations

Skills
Relationship between fractions and percentages

Skills
Write, simplify and work with ratio

Skills
4 operations with fractions, calculating percentages

Properties of Shape

End of Term Assessment

Visualising and Constructing

Skills
Construct triangles with ruler, protractor and compasses



Skills
Use the 4 operations with large numbers (up to 6 digits) and decimals

Calculating

By the end of term 1 students should be able to use positive integer powers and their roots, use the 4 operations with decimals, check calculations and use geometric notation

Skills
Properties of 3d shapes, triangles and quadrilaterals



Checking and Estimating

Skills
Round to decimal places and significant figures. Use rounding to make estimates

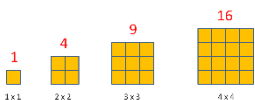
Counting and Comparing

< ≤
> ≥

Numbers and the Number System

YEAR 7

Skills
Order integers, fractions and decimals



Skills
Types of number inc. prime, square, cube

Introduction to Secondary Mathematics



KS3