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.

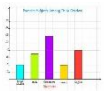
Year 9

End of Term Assessment

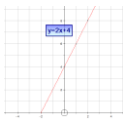
Measuring data

Skills
Calculate averages for grouped data

Presenting data



Skills
Read and draw graphs for grouped data



Understanding Risk 2

Calculating space

Algebra - Visualising

Skills
Plotting and using graphs

Skills
Perimeter, area and volume in circles

Skills
Calculating the probability of 2 events

By the end of term 3 students should be able to draw and interpret linear graphs from an equation and calculate the area and circumference of circles

End of Term Assessment

Solving equations

Calculating f/d/p

Skills
Calculate unknown values including negatives and fractional answers

Skills
Working with percentage increase/decrease

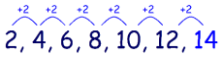
Skills
Ratio problems and best buys

Proportional reasoning

Pattern Sniffing

Investigating angles

Skills
Finding and using the nth term



Skills
Calculate unknown angles in shapes and with parallel lines

By the end of term 2 students should be able to calculate percentage change, find multipliers in proportion problems, find the nth term of a sequence and solve linear equations with unknowns on both sides.

Visualising and Constructing

End of Term Assessment

Exploring f/d/p

Skills
Enlargements and bearings

Skills
Relationship between fractions and decimals

Skills
Index laws, substitution and rearranging formulae

Algebra - Tinkering

By the end of term 1 students should be able to write numbers in standard form, use 4 operations with negative numbers, calculate probability of an event, simplify expressions with indices, factorise expressions, rearrange simple formulae and convert between fractions and decimals

Understanding Risk 1

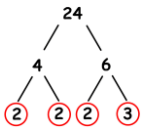
Calculating

Skills
Introduction to probability – probability scale, vocabulary

Numbers and the Number System

YEAR 8

Skills
Use the 4 operations with directed numbers



Skills
Product of Primes and Standard Form

Mathematical thinking/recall

St Michael's

KS3