

Year 8 Overview

A deeper study of fundamental mathematics using year 7 core Number and proportion knowledge to apply to the three other strands of mathematical content. Algebra, Geometry and Measure and Statistics and probability

Half Term	Curriculum Plan
1	Manipulating and simplifying expressions - starting to look at combining algebra with the number skills from year 7. Time, estimation and use of a calculator - starting to look at GCSE number knowledge of error intervals and truncation.
2	Drawing, measuring and constructing. An introduction to using mathematical equipment. Ruler, compass and protractor. Manipulating and simplifying expressions. An extension from half term 1 with a look at how we use algebra in contextual settings.
3	Linear equations - starting to look at solving equations and what they represent. Proportional reasoning. Applications of basic number skills into contextual situations such as best buys, scaling and financial maths.
4	Polygons and angles - expanding on the knowledge discovered in half term 2 to begin to solve geometrical problems. Discrete data – using the data handling cycle - collecting, representing and analysing data
5	Ratio. Using formulae with curriculum links to science, computing and elements of DT - possible extensions into compound measures.
6	Bivariate data and time series and scatter diagrams. The cartesian grid. Co-ordinates, graphs and equations.

Homework:

All homework is set on Sparx maths on a Monday to be submitted by a Sunday evening. Focussing on all learning up to this point, Timetables practice included.

Useful links:

[Sparx Maths Login](#)
[KS3 Maths - BBC Bitesize](#)
[OAK National Academy - Maths](#)

Assessments:

At the end of each topic, students complete a post-diagnostic assessment in class. These short assessments help identify how well students have understood the key concepts and allow teachers to address any gaps.

There are two main formal assessment points during the year:

AP1 w/c 19th January – formal assessment covering all content taught up to that point

AP2 w/c 22nd June - formal assessment reviewing all topics covered throughout the year