Year 8

KS3 Maths Curriculum

Developing Algebra Skills

How can we form and simplify algebraic expressions? What is expanding and factorising? How can we solve equations? What are inequalities and how can we show them?

Probability

What language can we use to describe probability? How can tables or diagrams help to calculate and show probability? What does 'mutually exclusive' mean?

Properties of Number

What is the difference between powers and roots? What does a negative or fractional power do? Can we carry out calculations in the correct order? What is prime factor decomposition and how can we use it?

Sequences

Can we recognise and use different types of sequences? Can we derive the nth term and use it to find terms in a sequence?

Graphs

Can we read and plot coordinates on a graph? How are graphs used in real life? Can we draw linear graphs and understand what gradient is?

Working with FDP

How can we convert between fractions, decimals and percentages? What are recurring decimals? How can we calculate percentage change with and without a calculator?

2D and 3D Shapes

How can we find the area and perimeter of different 2D shapes? How can we calculate surface area and volume of any prism? Is $1m^2 = 100cm^2$?

Angles, Constructions and Loci

What are the different types of angles? What is the difference between congruent and similar shapes? What is loci and can I use it to solve problems?

Working with Fractions

Can we carry out the four operations with fractions? Can we apply our knowledge on fractions to solve problems with shape or algebra?

Averages and Data

Can I calculate the averages and range from a set? What does 'frequency' mean? What information can I take from frequency tables and pie charts?