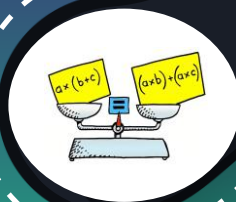


# Year 8

## 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?



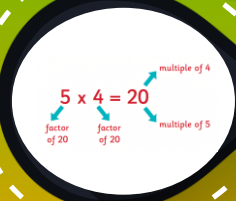
## Probability

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?

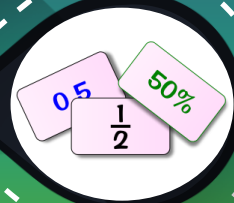


# KS3 Maths Curriculum



## 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?

$$\frac{3}{4} + \frac{2}{3} =$$
$$\frac{3}{4} - \frac{2}{3} =$$

## 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?

