Our Learning Journey: Year 10 Foundation Maths

Knowledge over time

Year 11

Venn diagrams

Calculate probability

Probability trees

Sample spaces

Statistics & Probability

Equation of a line

Drawing straight line graphs

Quadratic and cubic graphs

The gradient and y-intercept

Algebra

Angles in parallel lines

Angles in polygons

Angle facts

Speed calculations

$s = \frac{d}{t}$

Metric units

Distance-time graphs

Geometry & Measures

Picture sequences

nth term

Fibonacci sequence

Algebra

Geometry & Measures

Averages

Averages from tables

Compound interest

Using percentages

Statistics & Probability

Simultaneous equations

Forming equations

Equations with 2 steps

Reverse percentages

Percentages of amounts

Number

Inequalities

Quadratic equations

Equations with brackets

Algebra

Volume of 3D Solids

Area & Circumference of Circles

π

Calculations with fractions

Problems involving fractions

Number

Pie charts

Bar charts

Scatter graphs

Statistics & Probability

Area of shapes using formulae

Mixed numbers & improper fractions

Perimeter

Rearranging formulae

Substituting values

Similar shapes

Geometry & Measures

Vector Arithmetic

Column Vectors

Algebra

Geometry & Measures

Rotations

Enlargements

Reflections

Translations

$E=MC^2$

Using formulae in maths and other subjects

$6 \div 2(1+2) =$

WHICH IS BETTER VALUE?

£1.65

£2.15

Order of operations

Using a calculator

Use of indices

Number

Factors

Standard form

Multiples

Primes

Number

Geometry & Measures

Recipes

Using proportion to solve problems

Problems involving ratios

Using ratios

2 : 3

2 to 3

Trigonometry

Pythagoras' theorem

$a^2 + b^2 = c^2$

Number

Geometry & Measures

Factorising expressions

Simplifying expressions

Quadratic expressions

Expanding brackets

$x^2 - 2x - 24$

$(x-6)(x+4)$

$5(x+3)$

Algebra

Year 10 Maths