Our Learning Journey: Year 9 Maths

Knowledge over time

Year 10

Geometry & Measures
- Speed calculations
- Distance-time graphs
- Metric units

Statistics & Probability
- Venn diagrams
- Calculate probability
- Probability trees
- Sample spaces

Geometry & Measures
- Angles in parallel lines
- Angle facts
- Angles in polygons

Number
- Factors
- Primes
- Multiples
- Standard form

Algebra
- Simultaneous equations
- Equations with brackets
- Forming equations
- Equations with 2 steps

Geometry & Measures
- Trigonometry
- Similar shapes
- Pythagoras' theorem

Geometry & Measures
- Use of indices
- Using a calculator

Number
- Using percentages
- Compound interest
- Percentages of amounts
- Reverse percentages
- Order of operations

Number
- Loci
- Constructions
- Algebraic fractions
- Calculations with fractions
- Mixed numbers & improper fractions

Geometry & Measures
- Averages from tables
- Cumulative frequency
- Averages

Statistics & Probability
- Quadratic and cubic graphs
- Equation of a line
- The gradient and y-intercept
- Drawing straight line graphs

Algebra
- Quadratic expressions
- Factorising expressions
- Expanding brackets
- Simplifying expressions

Number
- Problems involving ratios
- Recipes
- Using ratios
- Using proportion to solve problems

Algebra
- Volume of 3D Solids
- Area of shapes using formulae
- Area & Circumference of Circles

Geometry & Measures
- Rearranging formulae
- Perimeter

Algebra
- Substituting values
- Using formulae in maths and other subjects

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