

Ovingham Middle School Subject Overview Year 8



Subject: Mathematics

Each column represents an approximate half term starting at 1 = September to October

	1	1.5	2	2.5	3	3.5
Topic	Number. Measures.	Algebra. Fractions, decimals and percentages.	Geometry. Algebra.	Number. Statistics.	Geometry. Algebra.	Number. Geometry.
Areas of curriculum covered	Powers of 10. Rounding. Factors, multiples and primes. Estimating and approximating. Metric measures. Imperial measures. Area of "D shape. Circumference of a circle. Area of a circle. Compound measures.	Factors in algebra. Algebraic fractions. Formulae in context. Rearranging formulae. Deriving and graphing formulae. Adding and subtracting fractions. Multiplying fractions. Dividing fractions. Decimals and fractions. Percentage change. Percentage problems. Financial maths – repeated percentage change.	Angle properties of a triangle. Angle properties of a quadrilateral. Angle properties of a polygon. Congruent shapes. Tables of values. Drawing straight-line graphs. Gradient of a straight-line graph. Y-intercept of a straight-line graph. The equation $y=mx + c$. Equations given implicitly. Real-life graphs. Distance-time graphs. Time series.	Adding and subtracting decimals. Multiplying decimals. Dividing decimals. Using a calculator. Interpreting the calculator display. Planning a project. Data collection. Frequency tables. Statistical diagrams. Calculating averages. Interpreting graphs. Correlation. Averages from grouped data. Comparing distributions. Communicating the results of an enquiry.	Transformations. Enlargements. Combinations of transformations. Maps and scale drawings. Bearings. Solving equations. Equations with brackets. Unknown on both sides. Constructing equations. Trial and improvement.	Square roots and cube roots. Indices. Indices and surds. Standard form for large numbers. Standard form for small numbers. Constructing a triangle. Loci and constructions. Pythagoras' theorem.

Please be aware that each class is unique and although the above planning will be followed as close as possible, at times, and with individual classes, we may deliver deeper, extended learning into a topic, move faster to another topic or go slower to make sure we have clarified learning.

If you are in any doubt or have any specific questions about this subject please contact the subject co-ordinator: Mrs Kemp