

## Ovingham Middle School Subject Overview Year 7



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	Place value and decimals. Multiply and divide by 10, 100 and 1000. Negative numbers. Mental methods of addition and subtraction. Written methods of addition and subtraction. Calculator methods.  Length. Units of measurement. Perimeter. Area of a rectangle. Area of a triangle. Area of a parallelogram.	Algebraic symbols. Expressions. Collecting like terms. Using a formula. Writing a formula. Expressions and formulae.  Fractions. Equivalent fractions. Addition and subtraction of fractions. Decimals and fractions. Fractions of a quantity. Percentages. Percentages of an amount. Fractions, decimals and percentages.	Angle measure. Measuring angles. Drawing lines and angles. Calculating angles. Angles in a triangle. Properties of triangles. Properties of quadrilaterals. Properties of polygons.  Coordinates. Tables of values. Plotting straight-line graphs. Real-life graphs.	Rounding. Order of operations. Mental multiplication and division. Written methods of multiplication and division. Calculator methods.  Bar charts. Reading and interpreting pie charts. Line graphs. Mode, median, range. The mean. Interpreting graphs and charts. Planning a statistical enquiry. Collecting data. Tally charts and frequency tables. Comparing data.	Reflection. Reflection symmetry. Rotation. Rotation symmetry. Translation. Tessellations.  Multiplying and dividing terms. Balancing calculations. Simple calculations. More simple equations. Two-step equations.	Factors and multiples. Square numbers. Square roots. Prime numbers. LCM and HCF.  Constructing triangles. Scale drawings. Properties of 3D shapes. Isometric drawings. Nets of 3D shapes. Volume.

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 A Kemp