

Mathematics

Year 8 Curriculum Map



Woolwich Polytechnic
School for Boys

Unit One	Unit Two	Unit Three
<p>Topic: Ratio and Scale</p> <p>Key Learning: Understanding and using ratio notation, in the simplest forms, in 1:n and n:1 and solving proportion problems using ratio.</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Multiplicative Change</p> <p>Key Learning: Solving direct proportion problems using calculations and conversion graphs</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Multiplication and Division of Fractions</p> <p>Key Learning: Multiplying and dividing fractions in different contexts</p> <p>Assessment: Topic-test and mid-year exam</p>
Unit Four	Unit Five	Unit Six
<p>Topic: Brackets, Equations and Inequality</p> <p>Key Learning: Expanding and factorising algebraic expressions, solving more complex equations and working with inequality notation</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Sequence</p> <p>Key Learning: Using rules to describe and generate sequences.</p> <p>Assessment: Topic-test and mid-year exam</p>	<p>Topic: Working in the Cartesian Plane</p> <p>Key Learning: Working with co-ordinates in all four quadrants and drawing straight line graphs in the form $y=a$, $x=b$, $y=x$, $y=kx$, and $k=x+y$.</p> <p>Assessment: Topic-test and mid-year exam</p>

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Unit Seven	Unit Eight	Unit Nine
<p>Topic: Representing Data</p> <p>Key Learning: Understanding the relationships between dependent and independent variables using graphs and tables</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Tables and Probability</p> <p>Key Learning: Constructing sample spaces, two-way tables and venn diagrams to find probabilities.</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Indices</p> <p>Key Learning: Adding and subtracting expressions with indices and using addition and subtraction laws for indices</p> <p>Assessment: Topic-test and end-of-year exam</p>
Unit Ten	Unit Eleven	Unit Twelve
<p>Topic: Standard Form</p> <p>Key Learning: Writing numbers in standard form and using them in calculations</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Fractions and Percentages</p> <p>Key Learning: Converting between fractions, decimals and percentages and increasing and decreasing numbers by given and unknown percentages.</p> <p>Assessment: Topic-test and end-of-year exam</p>	<p>Topic: Line Symmetry and Reflection</p> <p>Key Learning: Reflecting shapes in lines of symmetry</p> <p>Assessment: Topic-test and end-of-year exam</p>

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Unit Thirteen

Topic: Angles in Parallel Lines and Polygons

Key Learning:

Calculating angles using the rules for angles in parallel lines and angles in polygons and proving conjectures.

Assessment:

Topic-test and end-of-year exam

Unit Fourteen

Topic: Number Sense

Key Learning:

Rounding to significant figures, estimating calculations and converting between units

Assessment:

Topic-test and end-of-year exam

Unit Fifteen

Topic: Area of Trapezia and Circles

Key Learning:

Calculating the area and perimeter of trapezia and circles

Assessment:

Topic-test and end-of-year exam

Unit Sixteen

Topic: The Data Handling Cycle

Key Learning:

Drawing and interpreting different charts and graphs

Assessment:

Topic-test

Unit Seventeen

Topic: Measures of Location

Key Learning:

Understanding averages and range in both lists of data and grouped frequency tables.

Assessment:

Topic-test