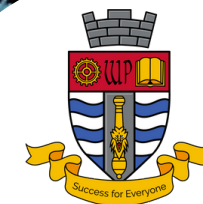


# Mathematics

## Year 7 Curriculum Map



Woolwich Polytechnic  
School for Boys

### Unit One

**Topic: Place Value**

**Key Learning:**

Understanding the place value for whole numbers, decimals and powers of ten.

**Assessment:** Topic-test and mid-year exam

### Unit Two

**Topic: Addition and Subtraction**

**Key Learning:**

Formal and mental methods for addition and subtraction, applied to real world concepts such as shapes, ranges and medians.

**Assessment:** Topic-test and mid-year exam

### Unit Three

**Topic: Multiplication and Division**

**Key Learning:**

Formal and mental methods for multiplication and division, applied to real world concepts such as area and mean.

**Assessment:** Topic-test and mid-year exam

### Unit Four

**Topic: Prime Numbers**

**Key Learning:**

Identifying and understanding prime numbers and the link to factors and multiples

**Assessment:**

Topic-test and mid-year exam

### Unit Five

**Topic: Directed number**

**Key Learning:**

Understanding the world of positive and negative numbers and zero pairs, and their links to powers, roots and orders of operation

**Assessment:**

Topic-test and end-of-year exam

### Unit Six

**Topic: Sequences**

**Key Learning:**

Identifying and describing linear and non-linear sequences

**Assessment:**

Topic-test and end-of-year exam

# Mathematics

## Year 7 Curriculum Map



Woolwich Polytechnic  
School for Boys

### Unit Seven

**Topic: Algebraic Notation**

**Key Learning:**

Understanding, using and applying algebraic notation to replace numbers

**Assessment:**

Topic-test and end-of-year exam

### Unit Eight

**Topic: Equality and Equivalence**

**Key Learning:**

Understanding the meaning of equality and using it to solve simple equations

**Assessment:**

Topic-test and end-of-year exam

### Unit Nine

**Topic: Fraction, Decimal and Percentage Equivalence**

**Key Learning:**

Representing fractions and decimals on numbers lines and using hundred squares and helping convert to percentages

**Assessment:**

Topic-test and end-of-year exam

### Unit Ten

**Topic: Fractions and Percentages of Amounts**

**Key Learning:**

Finding fractions and percentages of given amounts using calculator and non-calculator methods

**Assessment:**

Topic-test and end-of-year exam

### Unit Eleven

**Topic: Constructions and Measuring**

**Key Learning:**

Identifying, classifying, measuring and drawing angles and applying them to pie charts

**Assessment:**

Topic-test and end-of-year exam

### Unit Twelve

**Topic: Geometric Reasoning**

**Key Learning:**

Using the rules of angles on a straight line, angles at a point, angles in a triangle and angles in quadrilateral.

**Assessment:**

Topic-test and end-of-year exam

# Mathematics

## Year 7 Curriculum Map



Woolwich Polytechnic  
School for Boys

### Unit Thirteen

**Topic: Developing Number Sense**

**Key Learning:**

Solidifying concepts for mental arithmetic strategies and applying to calculations

**Assessment:**

Topic-test and end-of-year exam

### Unit Fourteen

**Topic: Prime Numbers 2**

**Key Learning:**

Using prime numbers to find the highest common factor and lowest common multiple of a pair of numbers

**Assessment:**

Topic-test and end-of-year exam

### Unit Fifteen

**Topic: Fractional Thinking**

**Key Learning:**

Adding and subtracting fractions in different contexts

**Assessment:**

Topic-test and end-of-year exam

### Unit Sixteen

**Topic: Sets and Probability**

**Key Learning:**

Using Venn Diagrams and sets to describe the probability of events happening

**Assessment:**

Topic-test

### Unit Seventeen

**Topic: Constructions**

**Key Learning:**

Constructing triangles using congruence rules

**Assessment:**

Topic-test