

# Year 5 and 6 Maths - Small Step Progression - Newbrough and Wark C of E Primary Schools



Small steps for UKS2

Year 5 objectives      Year 6 objectives

## Autumn Term

### Place Value 1

1. Roman Numerals
2. Numbers to 10,000
3. Numbers to 100,000
4. Numbers to 1,000,000
5. Numbers to 10,000,000
6. Read and Write numbers
7. Numberline to 1,000,000
8. Compare and order to 1,000,000
9. Compare and order any integer

### Four operations 1

1. Add whole numbers with more than 4 digits
2. Subtract whole numbers with more than 4 digits
3. Add and subtract integers
4. Inverse operations
5. Multi-step addition and subtraction problems

### Fractions 1

1. Find fractions equivalent to a unit fraction
2. Find fractions equivalent to a non-unit fraction
3. Recognise equivalent fractions
4. Equivalent fractions and simplifying
5. Equivalent fractions on a number line

### Decimals 1

1. Decimals up to 2dp
2. Decimals as a fraction
3. Understand thousandths
4. Thousandths as decimals
5. Three decimal places

### Converting measures 1

1. Kilograms and kilometres
2. Milligrams and millilitres
3. Metric units
4. Metric measures
5. Converting metric measures

### Perimeter and area 1

1. Measure perimeter
2. Calculate perimeter
3. Area and perimeter
4. Area of rectangles
5. Area of compound shapes
6. Area of irregular shapes



**Place Value 2**

1. Round within 100,000
2. Round any integer
3. Powers of 10
4. Negative numbers

**Four Operations 2**

1. Multiples
2. Common multiples
3. Multiply by 10, 100, 1000
4. Divide by 10, 100, 1000
5. Multiples of 10, 100, 1000

**Fractions 2**

1. Improper fractions to mixed numbers
2. Mixed numbers to improper fractions
3. Compare fractions less than 1
4. Order fractions less than 1

**Decimal 2**

1. Decimals as fractions
2. Rounding decimals
3. Multiplying decimals by 10, 100, 1000
4. Multiply decimals by integers

**Statistics 1**

1. Read and interpret line graphs
2. Draw line graphs
3. Problems with line graphs
4. Read and interpret line graphs
5. Draw line graphs
6. Line graph problems

**Property of Shape 1**

1. Measure with a protractor
2. Angles on a straight line
3. Angles around a point
4. Calculate angles

**Four Operations 3**

1. Multiply 4-digits by 1-digit\*
2. Multiply 2-digits by 2-digits (area model)\*
3. Multiply 2-digits by 2-digits\*
4. Multiply 3-digits by 2-digits\*
5. Multiply 4-digits by 2-digits

**Algebra 1**

1. Find a rule one step
2. Find a rule - 2 step
3. Forming expressions

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4. Substitutions
5. Formulae

**Fractions 3**

1. Compare and order (denominator)
2. Compare and order (numerator)
3. Compare and order fractions greater than 1

**Position and direction 1**

1. Position in the first quadrant
2. The first quadrant
3. Four quadrants

**Four Operations 4**

1. Factors
2. Solve problems with multiplication
3. Common factors
4. Divide 4 digits by 1 digit\*
5. Short division
6. Division using factors

**Fractions 4**

1. Add and subtract fractions with the same denominator
2. Add fractions within 1
3. Subtract fractions
4. Add and subtract simple fractions
5. Add and subtract any two fractions

**Decimals 3**

1. Divide decimals by integers
2. Division to solve problems
3. Percentages as fractions and decimals
4. Equivalent FDP
5. Fractions to percentages

**Perimeter, Area and Volume 2**

1. Shapes with the same area
2. Area of a triangle 1 and 2
3. Area of a triangle 3
4. Area of a parallelogram

**Four Operations 5**

1. Intro to long division
2. Long division with remainders
3. Solve problems with division
4. Prime numbers
5. Square and cube numbers

**Fractions 5**

1. Add to a mixed number
2. Add two mixed numbers
3. Add mixed numbers

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4. Subtract from a mixed number
5. Subtract from a mixed number - breaking the whole
6. Subtract two mixed numbers Subtract mixed numbers

**Property of Shapes 2**

1. Vertically opposite angles
2. Lengths and angles in shapes
3. Angles in a triangle
4. Angles in quadrilaterals

**Four Operations 6**

1. Solve multi-step problems
2. Order of operations
3. Mental calculations and estimates
4. Reason known facts

**Fractions 6**

1. Multistep problems
2. Multiply unit fractions by an integer
3. Multiply non-unit fractions by an integer
4. Multiply fractions by integers
5. Multiply mixed numbers by integers
6. Multiply fractions by fractions

**Decimals 4**

1. Order FDP 5.3.24
2. Percentage of amount
3. Percentage of amount 2 (if needed)

**Statistics 4**

1. Read and interpret tables
2. Two-way tables
3. Timetables

**Property of Shapes 3**

1. Regular and irregular polygons
2. Areas in polygons
3. Drawing accurately
4. Drawing shapes accurately

**Fractions 7**

1. Divide fractions by an integer
2. Divide any fraction by an integer
3. Mixed questions with fractions

**Decimals 5**

1. Adding decimals within
2. Subtracting decimals within 1
3. Crossing the whole
4. Wholes and decimals

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**Algebra 2**

1. Forming equations
2. One step equations
3. Two-step equations
4. Find pairs of values
5. Find Pairs of values

**Converting Measures 2**

1. Calculate with metric measures
2. Miles and kilometres
3. Imperial units
4. Imperial measures
5. Converting units of time

**Fractions 8**

1. Fraction of an amount
2. Fraction of an amount
3. Fraction of an amount - find the whole
4. Using fractions as operators

**Perimeter, Area and Volume 3**

1. What is volume?
2. Compare volume
3. Estimate Volume
4. Volume of a cuboid
5. Estimate capacity

**Statistics3**

1. Circles
2. Read and interpret pie charts
3. Draw pie charts
4. The mean

**Property of Shapes 4**

1. Reasoning about 3-D shapes
2. Nets of 3-D shapes

**Position and Direction 2**

1. Reflection
2. Reflection with coordinates
3. Reflections
4. Translation
5. Translation with coordinates
6. Translations

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Place Value 1		Four Operations 1	Fractions 1	Decimals 1	Measures 1
Perimeter, Area, Vol 1	Place Value 2	Four Operations 2	Fractions 2	Decimals 2	Statistics 1
Shape 1	Four Operations 3	Algebra 1	Fractions 3	Position and Dir. 1	Four Operations 4
Fractions 4	Decimals 3	Perimeter, Area, Vol 2	Four Operations 5	Fractions 5	Shapes 2
Four Operations 6	Fractions 6	Decimals 4	Statistics 1	Shape 3	Fractions 7
SATS Week	Decimals 5	Algebra 2	Measures 2	Fractions 8	Perimeter, Area, Vol 3
Statistics 3	Shape 4	Position and Dir. 2			