# Christ the Sower Primary School
# Maths Small Steps – Year 6

## Autumn Term

### Place Value

**Step 1** Numbers to 1,000,000
**Step 2** Numbers to 10,000,000
**Step 3** Read and write numbers to 10,000,000
**Step 4** Powers of 10
**Step 5** Number line to 10,000,000
**Step 6** Compare and order any integers
**Step 7** Round any integer
**Step 8** Negative numbers

### Addition, Subtraction, Multiplication & Division

**Step 1** Add and subtract integers
**Step 2** Common factors
**Step 3** Common multiples
**Step 4** Rules of divisibility
**Step 5** Primes to 100
**Step 6** Square and cube numbers
**Step 7** Multiply up to a 4-digit number by a 2-digit number
**Step 8** Solve problems with multiplication
**Step 9** Short division
**Step 10** Division using factors
**Step 11** Introduction to long division
**Step 12** Long division with remainders
**Step 13** Solve problems with division
**Step 14** Solve multi-step problems
**Step 15** Order of operations
**Step 16** Mental calculations and estimation
**Step 17** Reason from known facts

### Fractions A

**Step 1** Equivalent fractions and simplifying
**Step 2** Equivalent fractions on a number line
**Step 3** Compare and order (denominator)
**Step 4** Compare and order (numerator)
**Step 5** Add and subtract simple fractions
**Step 6** Add and subtract any two fractions
**Step 7** Add mixed numbers
**Step 8** Subtract mixed numbers
**Step 9** Multi-step problems

### Fractions B

**Step 1** Multiply fractions by integers
**Step 2** Multiply fractions by fractions
**Step 3** Divide a fraction by an integer
**Step 4** Divide any fraction by an integer
**Step 5** Mixed questions with fractions
**Step 6** Fraction of an amount
**Step 7** Fraction of an amount – find the whole

### Measurement: Converting Units

**Step 1** Metric measures
**Step 2** Convert metric measures
**Step 3** Calculate with metric measures
**Step 4** Miles and kilometres
**Step 5** Imperial measures

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## Spring Term

### Ratio

**Step 1** Add or multiply?
**Step 2** Use ratio language
**Step 3** Introduction to the ratio symbol
**Step 4** Ratio and fractions
**Step 5** Scale drawing
**Step 6** Use scale factors
**Step 7** Similar shapes
**Step 8** Ratio problems
**Step 9** Proportion problems
**Step 10** Recipes

### Algebra

**Step 1** 1-step function machines
**Step 2** 2-step function machines
**Step 3** Form expressions
**Step 4** Substitution
**Step 5** Formulae
**Step 6** Form equations
**Step 7** Solve 1-step equations
**Step 8** Solve 2-step equations
**Step 9** Find pairs of values
**Step 10** Solve problems with two unknowns

### Decimals

**Step 1** Place value within 1
**Step 2** Place value - integers and decimals
**Step 3** Round decimals
**Step 4** Add and subtract decimals
**Step 5** Multiply by 10, 100 and 1,000
**Step 6** Divide by 10, 100 and 1,000
**Step 7** Multiply decimals by integers
**Step 8** Divide decimals by integers
**Step 9** Multiply and divide decimals in context

### Fractions, Decimals & Percentages

**Step 1** Decimal and fraction equivalents
**Step 2** Fractions as division
**Step 3** Understand percentages
**Step 4** Fractions to percentages
**Step 5** Equivalent fractions, decimals and percentages
**Step 6** Order fractions, decimals and percentages
**Step 7** Percentage of an amount – one step
**Step 8** Percentage of an amount – multi-step
**Step 9** Percentages – missing values

### Measurement: Area, Perimeter & Volume

**Step 1** Shapes – same area
**Step 2** Area and perimeter
**Step 3** Area of a triangle – counting squares
**Step 4** Area of a right-angled triangle
**Step 5** Area of any triangle
**Step 6** Area of a parallelogram
**Step 7** Volume – counting cubes
**Step 8** Volume of a cuboid

### Statistics

**Step 1** Line graphs
**Step 2** Dual bar charts
**Step 3** Read and interpret pie charts
**Step 4** Pie charts with percentages
**Step 5** Draw pie charts
**Step 6** The mean

## Summer Term

### Geometry: Shape

**Step 1** Measure and classify angles
**Step 2** Calculate angles
**Step 3** Vertically opposite angles
**Step 4** Angles in a triangle
**Step 5** Angles in a triangle – special cases
**Step 6** Angles in a triangle – missing angles
**Step 7** Angles in a quadrilateral
**Step 8** Angles in polygons
**Step 9** Circles
**Step 10** Draw shapes accurately
**Step 11** Nets of 3-D shapes

### Geometry: Position & Direction

**Step 1** The first quadrant
**Step 2** Read and plot points in four quadrants
**Step 3** Solve problems with coordinates
**Step 4** Translations
**Step 5** Reflections