Year 6 Maths Small Step Overview

1. Number: Place value	
a) Numbers to 1,000,000	
b) Numbers to 10,000,000	
c) Read and write numbers to 10,000,000	
d) Powers of 10	
e) Number line to 10,000,000	
f) Compare and order any integers	
g) Round any integer	
h) Negative numbers	
2. Number: Addition, Subtraction, Multiplication and Division	
a) Add and subtract integers	
b) Common factors	
c) Common multiples	
d) Rules of divisibility	
e) Primes to 100	
f) Square and cube numbers	
g) Multiply up to a 4-digit number by a 2-digit number	
h) Solve problems with multiplication	
i) Short division	
j) Division using factors	
k) Introduction to long division	
l) Long division with remainders	
m) Solve problems with division	
n) Solve multi-step problems	
o) Order of operations	
p) Mental calculations and estimation	
q) Reason from known facts	
3. Number: Fractions A	
a) Equivalent fractions and simplifying	
b) Equivalent fractions on a number line	
c) Compare and order (denominator)	
d) Compare and order (numerator)	
e) Add and subtract simple fractions	
f) Add and subtract any two fractions	
g) Add mixed numbers	
h) Subtract mixed numbers	
i) Multi-step problems	
4. Number: Fractions B	
a) Multiply fractions by integers	
b) Multiply fractions by fractions	
c) Divide a fraction by an integer	
d) Divide any fraction by an integer	
e) Mixed questions with fractions	
f) Fraction of an amount	
g) Fraction of an amount – find the whole	
5. Measurement: Converting Units	
a) Metric measures	
b) Covert metric measures	
c) Calculate with metric measures	
d) Miles and kilometres	
e) Imperial measures	
6. Number: Ratio	
a) Add or multiply?	
b) Use ratio language	
c) Introduction to the ratio symbol	
d) Ratio and fractions	
e) Scale drawing	
f) Use scale factors	
g) Similar shapes	
h) Ratio problems	
i) Proportion problems	
j) Recipes	
7. Number: Algebra	
a) 1-step function machines	
b) 2-step function machines	
c) Form expressions	
d) Substitution	
e) Formulae	
f) Form equations	
g) Solve 1-step equations	
h) Solve 2-step equations	
i) Find pairs of values	
j) Solve problems with two unknowns	
8. Number: Decimals	
a) Place value within 1	
b) Place value – integers and decimals	
c) Round decimals	
d) Add and subtract decimals	
e) Multiply by 10, 100 and 1,000	
f) Divide by 10, 100 and 1,000	
g) Multiply decimals by integers	
h) Divide decimals by integers	
i) Multiply and divide decimals in context	
9. Number: Fractions, Decimals and Percentages	
a) Decimal and fraction equivalents	
b) Fractions as division	
c) Understand percentages	
d) Fractions to percentages	
e) Equivalent fractions, decimals and percentages	
f) Order fractions, decimals and percentages	
g) Percentage of an amount – one step	
h) Percentage of an amount – multi-step	
i) Percentages – missing values	
10. Measurement: Perimeter, Area and Volume	
a) Shapes – same area	
b) Area and perimeter	
c) Area of a triangle – counting squares	
d) Area of a right-angled triangle	
e) Area of any triangle	
f) Area of a parallelogram	
g) Volume – counting cubes	
h) Volume of a cuboid	
11. Statistics	
a) Line graphs	
b) Dual bar charts	
c) Read and interpret pie charts	
d) Pie charts with percentages	
e) Draw pie charts	
f) The mean	
12. Geometry: Properties of shapes	
a) Measure and classify angles	
b) Calculate angles	
c) Vertically opposite angles	
d) Angles in a triangle	
e) Angles in a triangle – special cases	
f) Angles in a triangle – missing angles	
g) Angles in a quadrilateral	
h) Angles in polygons	
i) Circles	
j) Draw shapes accurately	
k) Nets of 3-D shapes	
13. Geometry: Position and Direction	
a) The first quadrant	
b) Read and plot points in four quadrants	
c) Solve problems with coordinates	
d) Translations	
e) Reflections	