Year 5 Maths Small Step Overview **Sunning Hill Primary School**

1. Number: Place value	
a) Roman numerals to 1000	
b) Numbers to 10000	
c) Numbers to 100000	
d) Numbers to 1000000	
e) Read and write numbers to 1000000	
f) Powers of 10	
g) 10/100/1000/10000/100000 more or less	
h) Partition numbers to 1000000	
i) Number line to 1000000	
j) Compare and order numbers to 100000	
k) Compare and order numbers to 1000000	
l) Round to the nearest 10, 100 and 1000	
m) Round within 100000	
n) Round within 1000000	
2. Number: Addition and subtraction	
a) Mental strategies	
b) Add whole numbers with more than four digits	
c) Subtract whole numbers with more than four digits	
d) Round to check answers	
e) Inverse operations (addition and subtraction)	
f) Multi-step addition and subtraction problems	
g) Compare calculations	
h) Find missing values	
3. Number: Multiplication and division (A)	
a) Multiples	
b) Common multiples	
c) Factors	
d) Common factors	
e) Prime numbers	
f) Square numbers	
g) Cube numbers	
h) Multiply by 10, 100 and 1000	
i) Divide by 10, 100 and 1000	
j) Multiples of 10, 100 and 1000.	
4. Number: Fractions (A)	
a) Find fractions equivalent to a unit fraction	
b) Find fractions equivalent to a non-unit fraction	
c) Recognise equivalent fractions	
d) Convert improper fractions to mixed numbers	
e) Convert mixed numbers to improper fractions	
f) Compare fractions less than 1	
g) Order fractions less than 1	
h) Compare and order fractions greater than 1	
i) Add and subtract fractions with the same denominator	
j) Add fractions within 1	
k) Add fractions with total greater than 1	
l) Add to a mixed number	
m) Add two mixed numbers	
n) Subtract fractions	
o)Subtract from a mixed number	
p) Subtract from a mixed number – breaking the whole	
q) Subtract two mixed numbers	
5. Multiplication and division (B)	
a) Multiply up to a 4-digit number by a 1-digit number	
b) Multiply a 2-digit number by a 2-digit number (area model)	
c) Multiply a 2-digit number by a 2-digit number	
d) Multiply a 3-digit number by a 2-digit number	
e) Multiply a 4-digit number by a 2-digit number	
f) Solve problems with multiplication	
g) Short division	
h) Divide a 4-digit number by a 1-digit number	
i) Divide with remainders	
j) Efficient division	
k) Solve problems with multiplication and division	
6. Number: Fractions (B)	
a) Multiply a unit fraction by an integer	
b) Multiply a non-unit fraction by an integer	
c) Multiply a mixed number by an integer	
d) Calculate a fraction of a quantity	
e) Fraction of an amount	
f) Find the whole	
g) Use fractions as operators	
7. Number: Decimals and percentages	
a) Decimals up to 2 decimal places	
b) Equivalent fractions and decimals (tenths)	
c) Equivalent fractions and decimals (hundredths)	
d) Equivalent fractions and decimals	
e) Thousandths as fractions	
f) Thousandths and decimals	
g) Thousandths on a place value chart	
h) Order and compare decimals (same number of decimal places)	
i) Order and compare any decimals with up to 3 decimal places	
j) Round to the nearest whole number	
k) Round to 1 decimal place	
l) Understand percentages	
m) Percentages as fractions	
n) Percentages as decimals	
o) Equivalent fractions, decimals and percentages	
8. Measurement: Perimeter and area	
a) Perimeter of rectangles	
b) Perimeter of rectilinear shapes	
c) Perimeter of polygons	
d) Area of rectangles	
e) Area of compound shapes	
f) Estimate area	
9. Statistics	
a) Draw line graphs	
b) Read and interpret line graphs	
c) Read and interpret tables	
d) Two-way tables	
e) Read and interpret timetables	
10. Geometry: Shape	
a) Understand and use degrees	
b) Classify angles	
c) Estimate angles	
d) Measure angles up to 180°	
e) Draw lines and angles accurately	
f) Calculate angles around a point	
g) Calculate angles on a straight line	
h) Lengths and angles in shapes	
i) Regular and irregular polygons	
j) 3-D shapes	
11. Geometry: Position and direction	
a) Read and plot coordinates	
b) Problem solving with coordinates	
c) Translation	
d) Translation with coordinates	
e) Lines of symmetry	
f) Reflection in horizontal and vertical lines	
12. Number: Decimals	
a) Use known facts to add and subtract decimals within 1	
b) Complements to 1	
c) Add and subtract decimals across 1	
d) Add decimals with the same number of decimal places	
e) Subtract decimals with the same number of decimal places	
f) Add decimals with different numbers of decimal places	
g) Efficient strategies for adding and subtracting decimals	
h) Decimal sequences	
i) Multiply by 10, 100 and 1000	
j) Divide by 10, 100 and 1000	
k) Multiply and divide decimals – missing values	
13. Number: Negative numbers	
a) Understand negative numbers	
b) Count through zero in 1s	
c) Count through zero in multiples	
d) Compare and order negative numbers	
e) Find the difference	
14. Measurement: Converting units	
a) Kilograms and kilometres	
b) Millimetres and millilitres	
c) Convert units of length	
d) Convert between metric and imperial units	
e) Convert units of time	
f) Calculate with timetables	
15. Shape: Volume	
a) Cubic Centimetres	
b) Compare Volume	
c) Estimate Volume	
d) Estimate Capacity	