



Place Value

Addition and Subtraction

Mental Multiplication & Division

Written methods Multiplication & Division



Year 3



Mass and Capacity

Fractions

Length and Perimeter



Long Term Plan

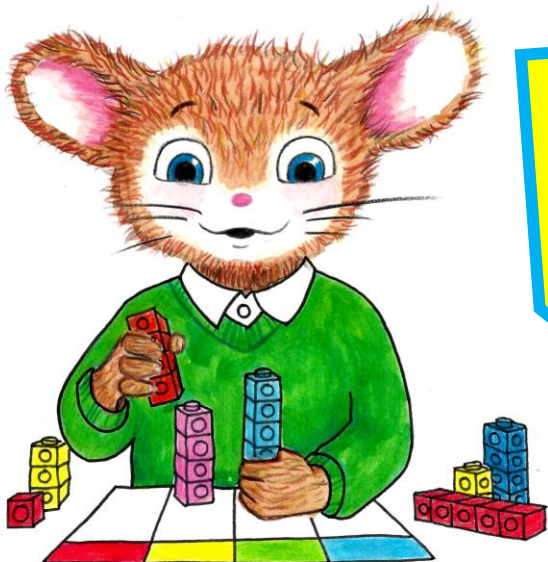
Fractions

Money

Time

Shape

Statistics



Year 3 Small Steps Overview Autumn

Autumn

Place Value	Mental Addition and Subtraction	Written addition/subtraction	Multiplication and Division
Represent numbers to 100 R	Apply number bonds in 10	Column addition (no exchange)	Equal groups R
Partition numbers to 100 R	Add and subtract 1 digit to 3 digit	Column addition (1 exchange)	Arrays R
Number line to 100 R	Add and subtract 2 digit to 3 digit	Column addition (more than exchange)	2,5 and 10 times table R
Hundreds	Add and subtract 3 digit to 3 digit	Column subtraction (no exchange)	Multiply by 3
100s 10s and 1s	Add 1s (cross a 10)	Column subtraction (1 exchange)	Divide by 3
Partition and represent numbers to 1000	Add 10s (cross a 100)	Column subtraction (more than 1 exchange)	Multiply by 4
Using Place Value to Subtract H	Subtract 1s (across 10)	Column addition (2 digit and 3 digit)	Divide by 4
Number line to 1000	Subtract 10s (across 100)	Column Subtraction (2 digit and 3 digit)	Multiply by 8
Find 1, 10 and 100 more/less	Partitioning to add 2 digit and 2 digit (H)	Compliments to 100	Divide by 8
Compare numbers to 1000		Maths frog (2 digit to 2 digit) H	2,4, 8 times tables
Order numbers to 1000		Maths frog (crossing 100) H	Multiplication Problems
Count in 50s		Maths frog (3 digit to 3 digit) H	
		Making decisions	

3 weeks

2 weeks

3 weeks

3 weeks

Year 3 Small Steps Overview Autumn

Autumn

Place Value	Mental Addition and Subtraction	Written addition/subtraction	Multiplication and Division
<ul style="list-style-type: none"> • Identify, represent and estimate numbers using different representations • Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) • Count from zero in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number • Identify, represent and estimate numbers using different representations • Read and write numbers up to 1,000 in numerals and words • Compare and order numbers up to 1,000 	<ul style="list-style-type: none"> • Add and subtract numbers mentally, including: <ul style="list-style-type: none"> • a 3-digit number and ones • a 3-digit number and tens • a 3-digit number and hundreds • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers 	<ul style="list-style-type: none"> • Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction • Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction • Estimate the answer to a calculation and use inverse operations to check answers 	<ul style="list-style-type: none"> • Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods • Show that multiplication of two numbers can be done in any order (commutative) and division on one number by another cannot (Y2) Count in steps of 2, 3 and 5 from 0, and in 10s from any number, forward and backward (Y2) • Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers (Y2) <p>Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables</p>

Year 3 Small Steps Overview Spring

Spring

Written Multiplication/Division	Length and Perimeter	Fractions	Mass and Capacity
1. Multiples of 10	1. Measure in metres and centimetres	1. Understand the denominators of unit fractions	1. Use scales
2. Related calculations	2. Measure in millimetres	2. Compare and order unit fractions	2. Measure mass in grams
3. Reasoning about multiplication	3. Measure in centimetres and millimetres	3. Understand the numerator of non-unit fractions	3. Measure mass in kilograms and grams
4. Multiply a 2-digit number by a 1-digit number (grid method)	4. Metres, centimetres and millimetres	4. Understand the whole	4. Equivalent masses (kilograms and grams)
5. Multiply a 2-digit number by a 1-digit number (grid method)	6. Equivalent lengths (centimetres and millimetres)	5. Compare and order non-unit fractions	5. Compare mass
6. Link multiplication and division	7. Compare lengths	6. Fractions and scales	6. Add and subtract mass
7. Divide a 2-digit number by a 1-digit number (just beyond timetables)	8. Add and subtract lengths	7. Fractions on a number line	7. Measure capacity and volume in millilitres
8. Divide a 2-digit number by a 1-digit number	10. What is perimeter?	8. Count in fractions on a number line	8. Measure capacity and volume in litres and millilitres
9. Divide a 2-digit number by a 1-digit number - with remainders	11. Measure perimeter	9. Equivalent fractions on a number line	9. Equivalent capacities and volumes (litres and millilitres)
10. Scaling	12. Calculate perimeter	10. Equivalent fractions as bar models	10. Compare capacity and volume
11. How many ways?			11. Add and subtract capacity and volume

Year 3 Small Steps Overview Spring

Spring

Written Multiplication/Division

- write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
- solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Length and Perimeter

- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- measure the perimeter of simple 2-D shapes

Fractions

- compare and order unit fractions, and fractions with the same denominators
- recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- recognise and show, using diagrams, equivalent fractions with small denominators

Mass and Capacity

- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Year 3 Small Steps Overview Summer

Summer

Fractions	Money	Time	Properties of shape	Statistics
1. Add Fractions	1. Pounds and pence	1. Roman numerals to 12	1. Turns and angles	1. Interpret pictograms
2. Subtract fractions	2. Convert pounds and pence	2. Tell the time to 5 minutes R	2. Right angles in shapes	2. Draw pictograms
3. Tenths	3. Add money	3. Tell the time to the minute	3. Compare angles (obtuse and acute)	3. Interpret bar charts
4. Count in tenths	4. Find change (maths frog)	4. Read time on a digital clock	4. Horizontal and vertical	4. Draw bar charts
5. Fractions of a set of objects		5. Use a.m. and p.m.	5. Parallel and perpendicular	5. Two-way tables
6. Fraction of amounts (1)		6. Years, months and days	6. Recognise and describe 2-D shapes	
7. Fraction of amounts (2)		7. Days and hours	7. Draw polygons	
8. Fraction of amounts (3)		8. Hours and minutes - use start and end times (maths frog)	8. Recognise and describe 3-D shapes	
		9. Hours and minutes - use durations (maths frog)	9. Make 3-D shapes	
		10. Minutes and seconds		
		11. Units of time		

Year 3 Small Steps Overview Summer

Summer

Fractions	Money	Time	Properties of shape	Statistics
<ul style="list-style-type: none"> • Add and subtract fractions with the same denominator within one whole • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators 	<ul style="list-style-type: none"> • Add and subtract amounts of money to give change, using both £ and p in practical contexts • Add and subtract amounts of money to give change, using both £ and p in practical contexts 	<ul style="list-style-type: none"> • Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight • Know the number of seconds in a minute and the number of days in each month, year and leap year • Compare durations of events 	<ul style="list-style-type: none"> • Recognise angles as a property of shape or a description of a turn • Identify right angles, recognise that two right angles make a half turn, three make three-quarters of a turn and four a complete turn; identify whether angles are greater than or less than a rightangle Measure the perimeter of simple 2-D shapes <ul style="list-style-type: none"> • Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines 	<ul style="list-style-type: none"> • Interpret and present data using bar charts, pictograms and tables • Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables