Year 3 - Yearly overview and small steps guidance

from the White Rose Scheme of Learning

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value			Number: Addition and Subtraction					Number: Multiplication and Division			Consolidation
Spring	Number: Multiplication and Division			Measurement: Money	Statistics		Measurement: Length and Perimeter			Number: Fractions		Consolidation
Summer	Number: Fractions			Measurement: Time			Geometry: Properties of Shape		Measurement: Mass and Capacity			Consolidation

Place value

Hundreds

Represent numbers to 1,000

100s, 10s and 1s (1)

100s, 10s and 1s (2)

Number line to 1,000

Find 1, 10 100 more or less than a given number

Compare objects to 1,000

Compare numbers to 1,000

Order numbers

Count in 50s

Identify, represent and estimate numbers using different representations.

Find 10 or 100 more or less than a given number.

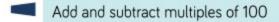Recognise the place value of each digit in a three-digit number (hundreds, tens, ones).

Compare and order number up to 1,000.

Read and write numbers up to 1,000 in numerals and in words.

Solve number problems and practical problems involving these ideas.

Count from 0 in multiples of 4, 8, 50 and 100

Addition and Subtraction

- Add and subtract multiples of 100
- Add and subtract 3-digit and 1-digit numbers – not crossing 10
- Add 3-digit and 1-digit numbers – crossing 10
- Subtract a 1-digit number from a 3-digit number – crossing 10
- Add and subtract 3-digit and 2-digit numbers – not crossing 100
- Add 3-digit and 2-digit numbers – crossing 100
- Subtract a 2-digit number from a 3-digit number – crossing 100
- Add and subtract 100s
- Spot the pattern – making it explicit
- Add and subtract a 2-digit and 3-digit numbers – not crossing 10 or 100
- Add a 2-digit and 3-digit numbers – crossing 10 or 100
- Subtract a 2-digit number from a 3-digit number – crossing 10 or 100
- Add two 3-digit numbers – not crossing 10 or 100
- Add two 3-digit numbers – crossing 10 or 100
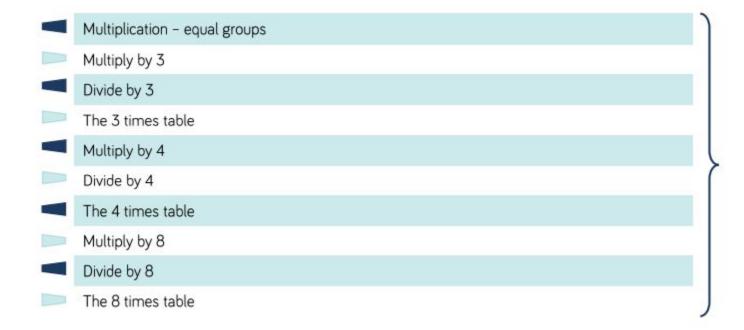- Subtract a 3-digit number from a 3-digit number – no exchange

Add and subtract numbers mentally, including: a three-digit number and ones; a three-digit number and tens; a three-digit number and hundreds.

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Estimate the answer to a calculation and use inverse operations to check answers.

Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Multiplication and Division

Multiplication – equal groups

Multiply by 3

Divide by 3

The 3 times table

Multiply by 4

Divide by 4

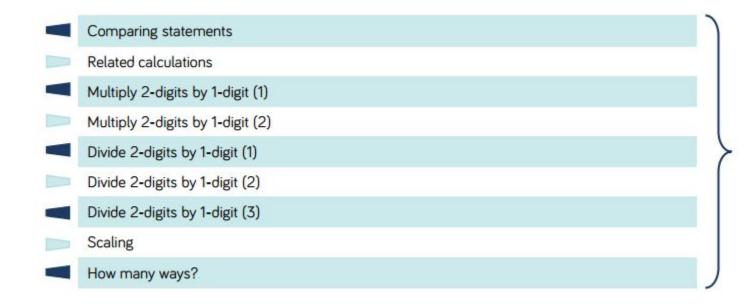The 4 times table

Multiply by 8

Divide by 8

The 8 times table

Count from 0 in multiples of 4, 8, 50 and 100

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

Write and calculate mathematical statements for multiplication and division using the multiplication tables 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.

Multiplication and Division

Comparing statements

Related calculations

Multiply 2-digits by 1-digit (1)

Multiply 2-digits by 1-digit (2)

Divide 2-digits by 1-digit (1)

Divide 2-digits by 1-digit (2)

Divide 2-digits by 1-digit (3)
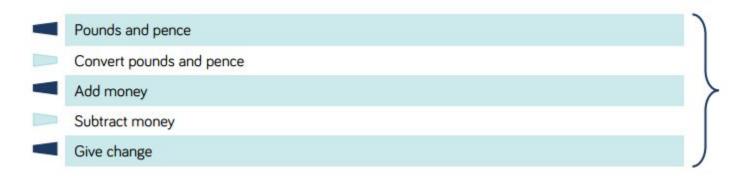
Scaling

How many ways?

Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables.

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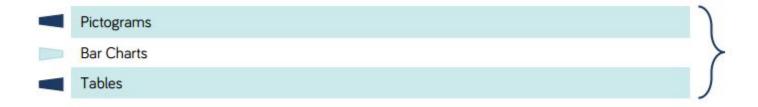
Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Money

Pounds and pence

Convert pounds and pence

Add money

Subtract money

Give change

Add and subtract amounts of money to give change, using both £ and p in practical contexts.

Statistics

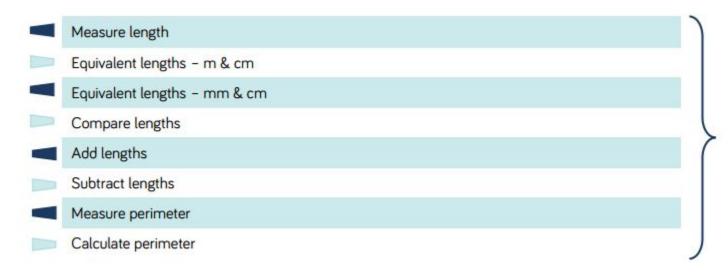|	
◀ Pictograms	
▷ Bar Charts	
◀ Tables	

Interpret and present data using bar charts, pictograms and tables.

Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.

Length and Perimeter

◀ Measure length	
▷ Equivalent lengths – m & cm	
◀ Equivalent lengths – mm & cm	
▷ Compare lengths	
◀ Add lengths	
▷ Subtract lengths	
◀ Measure perimeter	
▷ Calculate 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

Unit and non-unit fractions

Making the whole

Tenths

Count in tenths

Tenths as decimals

Fractions on a number line

Fractions of a set of objects (1)

Fractions of a set of objects (2)
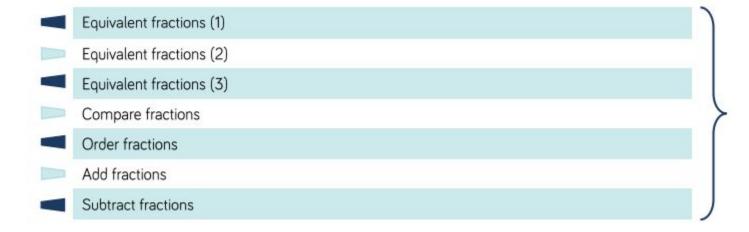
Fractions of a set of objects (3)

Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10

Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators.

Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

Solve problems that involve all of the above.

Fractions

◀ Equivalent fractions (1)

▷ Equivalent fractions (2)

◀ Equivalent fractions (3)

▷ Compare fractions

◀ Order fractions

▷ Add fractions

◀ Subtract fractions

Recognise and show, using diagrams, equivalent fractions with small denominators.
Compare and order unit fractions, and fractions with the same denominators.
Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$]
Solve problems that involve all of the above.

Time

Months and years

Hours in a day

Telling the time to 5 minutes

Telling the time to the minute

Using a.m. and p.m.

24-hour clock

Finding the duration

Comparing durations

Start and end times

Measuring time in seconds

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, a.m./p.m., 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 [for example to calculate the time taken by particular events or tasks].

Properties of Shape

■ Turns and angles	Recognise angles as a property of shape or a description of a turn.
■ Right angles in shapes	
■ Compare angles	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 right angle.
■ Draw accurately	
■ Horizontal and vertical	
■ Parallel and perpendicular	Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
■ Recognise and describe 2D shapes	
■ Recognise and describe 3-D shapes	Draw 2-D shapes and make 3-D shapes using modelling materials.
■ Make 3-D shapes	Recognise 3-D shapes in different orientations and describe them.

Mass and Capacity

- Measure mass (1)
- Measure mass (2)
- Compare mass
- Add and subtract mass
- Measure capacity (1)
- Measure capacity (2)
- Compare capacity
- Add and subtract capacity

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