

Year 4

	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				Addition and subtraction			Length and perimeter		Multiplication and Division.		
Spring	Multiplication and Division			Measures (Area)	Fractions					Decimals		
Summer	Decimals		Measures Money		Measures time		Statistics	Geometry Properties of shape		Geometry Position and direction		Consolidation

Year Four objectives:

Autumn:

**Place Value**

Number, numeral  
 Zero, one, two, three to twenty, and beyond to one hundred, two hundred .....one thousand, ten thousand, hundred thousand, million  
 None  
 How many...?  
 Count (on/up/to/from/down), Forwards, backwards  
 Count in ones, twos, fives, tens, threes and fours, eights, six, sevens, nines, twenty fives, fifties and so on to hundreds  
 Equal to, equivalent, is the same as, as many as, pair, rule, relationship, next, consecutive, > greater than, < less than  
  
 Integer, positive, negative, above/below zero, minus, negative numbers

Represent numbers to 1,000	R
100s, 10s and 1s	R
Number line to 1,000	R
Round to the nearest 10	
Round to the nearest 100	
Count in 1,000s	
1,000s, 100s, 10s and 1s	
Partitioning	
Number line to 10,000	
Find 1, 10, 100 more or less	R
1,000 more or less	
Compare numbers	

**Stem sentences:**

There are 100 tens in one thousand.  
 There are ten hundreds in one thousand  
 There are one hundred tens in one thousand  
 There are one thousand ones in one thousand.  
 \_\_\_\_ is greater than \_\_\_\_  
 \_\_\_\_ is less than \_\_\_\_  
  
 \_\_\_\_ is between \_\_\_\_ and \_\_\_\_  
 When rounding to the nearest 10, the ones digit is the digit to consider.  
 When rounding to the nearest 100, the tens digit is the digit to consider.

More, most, less, least, lesser, many, few, fewer, fewest, smaller, smallest, larger, largest, greater, greatest, bigger, biggest, sequence, continue, predict

Odd and even

Multiple of, factor of

One more, ten more, one less, ten less, one hundred more, one hundred less, one thousand more, one thousand less  
Units, ones, tens, digit, one-, two- or three-digit number, place, place value stands for, represents, exchange, numeral

First, second, third, third.....twentieth, twenty first, twenty second etc  
Last, last one, last but one  
Before, after, next, between, half-way between, above, below

Compare, order, size, tally,

Order numbers

Round to the nearest 1,000

Count in 25s

Negative numbers

Roman numerals to 100

**Addition and subtraction**

Addition, add, more, and, make, sum, total, altogether

Double, near double, half, halve

One more, two more.....ten more, one hundred more.....

How many more to make...?  
How many more is.... than ...?  
How much more is ....?

Subtract, take away, How many are left/left over?

Add and subtract 1s, 10s, 100s and 1,000s

Add two 3-digit numbers - not crossing 10 or 100



Add two 4-digit numbers - no exchange

Add two 3-digit numbers - crossing 10 or 100



Add two 4-digit numbers - one exchange

Add two 4-digit numbers - more than one exchange

Subtract a 3-digit number from a 3-digit number - no exchange



Subtract two 4-digit numbers - no exchange

Subtract a 3-digit number from a 3-digit number - exchange



Subtract two 4-digit numbers - one exchange

Subtract two 4-digit numbers - more than one exchange

Efficient subtraction

Estimate answers

Checking strategies

First we add \_\_\_ plus \_\_\_ is equal to \_\_\_

\_\_\_ minus \_\_\_ is equal to \_\_\_

If there are ten or more hundreds, we must regroup the hundreds into thousands and hundreds.

If there are ten or more ones, we must regroup the ones into tens and ones.

How many have gone? How many fewer is..... than....? How much less is..?

One less, two less, ten less, one hundred less  
Difference between  
Equals, is the same as  
Number bonds/pairs/facts tens boundary, hundreds boundary

### Length and Perimeter

Millimetre, centimetre, metre, kilometre, mile

Length, height, width, depth, breadth

Long, short, tall, high, low, wide, narrow, thick, thin, longer, shorter, taller, higher, longest,, shortest, tallest, highest

Far, further, furthest, near, close, distance apart ... between ... to ... from

Edge, perimeter, area, covers, square centimetre (cm<sup>2</sup>)

Ruler, metre stick, tape measure

Equivalent lengths - m and cm

Equivalent lengths - mm and cm

Kilometres

Add lengths

Subtract lengths

Measure perimeter

Perimeter on a grid

Perimeter of a rectangle

Perimeter of rectilinear shapes

The perimeter of the \_\_\_\_ is \_\_\_\_ cm.  
The perimeter of a rectangle is equal to two times the length of the long side plus two times the length of the short side.

You use addition to find the perimeter of a shape.  
The distance around the edge of the \_\_\_\_ is the perimeter.

## Multiplication and division

Multiplication, multiply, multiplied by, multiple, factor, groups of, times, product, once, twice, three times ... ten times, repeated addition

Division, dividing, divide, divided by, divided into  
grouping, sharing, share, share equally, left, left over, remainder, one each, two each, three each ... ten each, group in pairs, threes ... tens  
equal groups of

Multiplication table, multiplication fact, division fact

Doubling, halving

Array, row, column

Number patterns

Inverse, square, squared cube, cubed

Multiply by 10

Multiply by 100

Divide by 10

Divide by 100

Multiply by 1 and 0

Divide by 1 and itself

Multiply and divide by 3

The 3 times-table

Multiply and divide by 6

6 times table and division facts

Multiply and divide by 9

9 times table and division facts

Multiply and divide by 7

7 times table and division facts

\_\_\_ multiplied by ten is equal to \_\_\_.

\_\_\_ is ten times the size of \_\_\_

To find the inverse of ten times as many, divide by 10.

\_\_\_ divided by ten is equal to \_\_\_

Dividing by 100 is equivalent to dividing by ten and then dividing by ten again.

Spring:

## Multiplication and division

Multiplication, multiply, multiplied by, multiple, factor, groups of, times, product, once, twice, three times ... ten times, repeated addition

Division, dividing, divide, divided by, divided into, grouping, sharing, share, share equally, left, left over, remainder, one each, two each, three each ... ten each, group in pairs, threes ... tens, equal groups of

Multiplication table, multiplication fact, division fact

Factor, product.

Doubling, halving

Array, row, column

Number patterns

Inverse, square, squared cube, cubed

## Measures Area

Edge, perimeter, area, covers, square centimetre (cm<sup>2</sup>), Millimetre, centimetre, metre, kilometre, mile

Length, height, width, depth, breadth

11 and 12 times-table

Multiply 3 numbers

Factor pairs

Efficient multiplication

Written methods

Multiply 2-digits by 1-digit (1)

Multiply 2-digits by 1-digit

Multiply 3-digits by 1-digit

Divide 2-digits by 1-digit (1)

Divide 2-digits by 1-digit (1)

What is area?

Counting squares

Making shapes

Comparing area

\_\_\_ multiplied by \_\_\_ is equal to \_\_\_\_

\_\_\_ divided by \_\_\_ is equal to \_\_\_

When one is a factor, the product is equal to the other factor.

The product of \_\_\_ and \_\_\_ is \_\_\_\_

The shape has an area of square units. To find the area of a rectangle, multiply the length by the width. We measure area in square centimetres.

## Fractions

Fraction, equivalent fraction, mixed number, numerator, denominator equal part, equal grouping, equal sharing, parts of a whole, half, two halves  
one of two equal parts, quarter, two quarters, three quarters, one of four equal parts, one third, two thirds, one of three equal parts, sixths, sevenths, eighths, tenths ...  
hundredths, decimal, decimal fraction, decimal point, decimal place, decimal equivalent, proportion

Unit and non-unit fractions

What is a fraction?

Tenths

Count in tenths

Equivalent fractions (1)

Equivalent fractions (2)

Equivalent fractions (1)

Equivalent fractions (2)

Fractions greater than 1

Count in fractions

Add fractions

Add 2 or more fractions

Subtract fractions

Subtract 2 fractions

Subtract from whole amounts

Fractions of a set of objects (1)

Fractions of a set of objects (2)

Calculate fractions of a quantity

Problem solving - calculate quantities

The whole is divided into \_\_\_\_ equal parts.  
Each part is a \_\_\_\_

There are \_\_\_\_ groups of \_\_\_\_ which is equivalent to \_\_\_\_

When comparing fractions with the same denominator, the greater the numerator, the greater the fraction.

The parts are \_\_\_\_ and \_\_\_\_ . The total of the whole is \_\_\_\_ .

The denominator is \_\_\_\_ . This means the whole has been split into \_\_\_\_ equal parts.  
The numerator is \_\_\_\_ . This means there are \_\_\_\_ equal parts.

The numerator of the fraction is multiplied by the whole number, the denominator stays the same.

When \_\_\_\_ apples are split into \_\_\_\_ equal parts, there are \_\_\_\_ apples in each part.

Decimals  
tenths ... hundredths, decimal,  
decimal fraction, decimal point,  
decimal place, decimal equivalent,  
proportion

Recognise tenths and hundredths

Tenths as decimals

Tenths on a place value grid

Tenths on a number line

Divide 1-digit by 10

Divide 2-digits by 10

Hundredths

Hundredths as decimals

Hundredths on a place value grid

Divide 1 or 2-digits by 100

\_\_ tenths plus \_\_ tenths is equal to \_\_

One tenth can be written as 0.1 so \_\_\_\_  
tenths can be written as \_\_\_\_.

The whole is divided into one hundred  
equal parts; each part is one hundredth  
of the whole.

Summer:

Decimals  
tenths ... hundredths, decimal,  
decimal fraction, decimal point,  
decimal place, decimal equivalent,  
proportion

Make a whole

Write decimals

Compare decimals

Order decimals

Round decimals

Halves and quarters

\_\_ tenths plus \_\_ tenths is equal to \_\_

One tenth can be written as 0.1 so \_\_\_\_  
tenths can be written as \_\_\_\_.

The whole is divided into one hundred  
equal parts; each part is one hundredth  
of the whole.

<p><b>Measures (Money)</b>  Money, coin, penny, pence, pound  Price, cost, buy, bought, sell, sold,  spend, spent, pay, change, dear,  costs more, cheap, costs less,  cheaper, costs the same as</p> <p>How much ...? How many....? total</p>	<p>Pounds and pence</p> <p>Ordering money</p> <p>Estimating money</p> <p>Four operations</p>	<p>The total is equal to _____  _____ spends _____ and _____, what change  does he get from _____</p> <p>_____ is cheaper than _____.</p>
<p><b>Measures (Time)</b>  Days of the week, months of the year,  seasons, day, week, weekend, fortnight,  month, year, leap year, century, millennium,  calendar, date, date of birth, birthday,  morning, noon, afternoon, evening, night,  bedtime, midnight  Today, yesterday, tomorrow</p> <p>Before, after, earlier, later, next, first, last,  now, soon, early, late, earliest, latest  Quick, quicker, quickest, quickly, slow,  slower, slowest, slowly  Old, older, oldest, new, newer, newest</p> <p>Takes longer, takes less time, how long  ago? How long will it be to ...? How long will  it take to ...? How often?  Always, never, often, sometimes, usually,  once, twice</p> <p>Hour, o'clock, half past, quarter past, quarter  to, 5, 10, 15 ... minutes past, a.m, p.m  clock, clock face, watch, hands,  digital/analogue clock/watch, timer, hour  hand, minute hand, hours, minutes,  seconds, timetable, arrive, depart  Roman numerals, 12-hour clock time, 24-  hour clock time</p>	<p>Hours, minutes and seconds</p> <p>Years, months, weeks and days</p> <p>Analogue to digital - 12 hour</p> <p>Analogue to digital - 24 hour</p>	<p>_____ minutes is equal to - _____</p> <p>There are _____ hours in _____ days</p>

**Statistics**  
Count, tally, sort, vote, survey, questionnaire, data, group, block graph, pictogram, represent, group, set, list, table, chart, bar chart, frequency table, Carroll diagram, Venn diagram, label, title, axis, axes, diagram, most popular, most common, least popular, least common

Interpret charts  
Comparison, sum & difference  
Introducing line graphs  
Line graphs

The total of the tallies is \_\_\_\_  
The difference between \_\_\_\_ and \_\_\_\_ is \_\_\_\_  
The graph shows \_\_\_\_\_

**Geometry (Properties of shape)**  
Shape, pattern  
Flat, line, curved, straight, round, hollow, solid, centre, surface  
Sort, make, build, construct, draw, sketch, perimeter  
angle, right-angled base, square-based  
Reflect, reflection  
Size, bigger, larger, smaller  
Symmetry, symmetrical, symmetrical pattern, line symmetry, repeating pattern, match, regular, irregular

Identify angles  
Compare and order angles  
Triangles  
Quadrilaterals  
Lines of symmetry  
Complete a symmetric figure

\_\_\_\_ has \_\_\_\_ edges  
\_\_\_\_ had \_\_\_\_ vertices  
An obtuse angle measures \_\_\_\_\_  
An acute \_\_\_\_ measures \_\_\_\_\_

**2-D shape**  
2-D, two-dimensional  
Corner, side, point, pointed, rectangle (including square), rectangular, oblong, rectilinear, circle, circular, triangle, triangular, equilateral triangle, isosceles triangle, scalene triangle, pentagon, pentagonal hexagon, hexagonal, heptagon, octagon, octagonal

Quadrilateral, parallelogram, rhombus, trapezium, polygon, right-angled, parallel, perpendicular

**3-D shape**

3-D, three-dimensional

Face, edge, vertex, vertices

Cube, cuboid, pyramid, sphere, spherical, hemisphere, cone, cylinder, cylindrical, prism, triangular prism, tetrahedron, polyhedron

Angle ... is a greater/smaller angle than, acute angle, obtuse angle, reflection

**Geometry Position and direction.**

Position, over, under, underneath, above, below, top, bottom, side, on, in, outside, inside, around, in front, behind, front, back, beside, next to, opposite, apart, between, middle, edge, centre, corner

Direction, journey, route, left, right, up, down, higher, lower, forwards, backwards, sideways, across, next to, close, near, far, along, through, to, from, towards, clockwise, anti-clockwise, away from,

Compass point, north, south, east, west, N, S, E, W, north-east, north-west, south-east, south-west, NE, NW, SE, SW, horizontal, vertical, diagonal, translate, translation

Movement, slide, roll, turn, stretch, bend

Whole turn, half turn, quarter turn, three-quarter turn, rotate, rotation, degree, right angle, straight line, ruler, set square, angle measurer, compass

Describe position

Draw on a grid

Move on a grid

Describe a movement on a grid

\_\_\_\_\_ translated \_\_\_\_\_ up, \_\_\_\_\_ across.

\_\_\_\_\_ is positioned \_\_\_\_\_ north of \_\_\_\_\_

