

# Number: Number and Place Value

| COUNTING                                                                                             |                                                                                                     |                                                                          |                                                                                                                |                                                                                                                                                  |                                                                                                                                             |
|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Year 1                                                                                               | Year 2                                                                                              | Year 3                                                                   | Year 4                                                                                                         | Year 5                                                                                                                                           | Year 6                                                                                                                                      |
| count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number     |                                                                                                     |                                                                          | count backwards through zero to include negative numbers                                                       | interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero             | use negative numbers in context, and calculate intervals across zero                                                                        |
| count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens         | count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward              | count from 0 in multiples of 4, 8, 50 and 100;                           | count in multiples of 6, 7, 9, 25 and 1000                                                                     | count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000                                                        |                                                                                                                                             |
| given a number, identify one more and one less                                                       |                                                                                                     | find 10 or 100 more or less than a given number                          | find 1000 more or less than a given number                                                                     |                                                                                                                                                  |                                                                                                                                             |
| COMPARING NUMBERS                                                                                    |                                                                                                     |                                                                          |                                                                                                                |                                                                                                                                                  |                                                                                                                                             |
| use the language of: equal to, more than, less than (fewer), most, least                             | compare and order numbers from 0 up to 100; use <, > and = signs                                    | compare and order numbers up to 1000                                     | order and compare numbers beyond 1000                                                                          | read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) | read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) |
|                                                                                                      |                                                                                                     |                                                                          | <i>compare numbers with the same number of decimal places up to two decimal places (copied from Fractions)</i> |                                                                                                                                                  |                                                                                                                                             |
| IDENTIFYING, REPRESENTING AND ESTIMATING NUMBERS                                                     |                                                                                                     |                                                                          |                                                                                                                |                                                                                                                                                  |                                                                                                                                             |
| identify and represent numbers using objects and pictorial representations including the number line | identify, represent and estimate numbers using different representations, including the number line | identify, represent and estimate numbers using different representations | identify, represent and estimate numbers using different representations                                       |                                                                                                                                                  |                                                                                                                                             |

# Number: Number and Place Value

## READING AND WRITING NUMBERS (including Roman Numerals)

| Year 1                                                     | Year 2                                                          | Year 3                                                                                                                                                           | Year 4                                                                                                                                  | Year 5                                                                                                                                 | Year 6                                                                                                                                    |
|------------------------------------------------------------|-----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| read and write numbers from 1 to 20 in numerals and words. | read and write numbers to at least 100 in numerals and in words | read and write numbers up to 1 000 in numerals and in words                                                                                                      | read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value. | read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Comparing Numbers) | read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Understanding Place Value) |
|                                                            |                                                                 | <i>tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</i><br>(copied from Measurement) |                                                                                                                                         | read Roman numerals to 1000 (M) and recognise years written in Roman numerals.                                                         |                                                                                                                                           |

## UNDERSTANDING PLACE VALUE

|  |                                                                            |                                                                                        |                                                                                                                                                                                           |                                                                                                                                                  |                                                                                                                                                                                              |
|--|----------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | recognise the place value of each digit in a two-digit number (tens, ones) | recognise the place value of each digit in a three-digit number (hundreds, tens, ones) | recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)                                                                                      | read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers) | read, write, order and compare numbers up to 10 000 000 and determine the value of each digit (appears also in Reading and Writing Numbers)                                                  |
|  |                                                                            |                                                                                        | <i>find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as units, tenths and hundredths</i><br>(copied from Fractions) | <i>recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents</i><br>(copied from Fractions)                    | <i>identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places</i> (copied from Fractions) |

# Number: Number and Place Value

| ROUNDING        |                                                    |                                                                     |                                                                                                                |                                                                                                                               |                                                                                                                       |
|-----------------|----------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Year 1          | Year 2                                             | Year 3                                                              | Year 4                                                                                                         | Year 5                                                                                                                        | Year 6                                                                                                                |
|                 |                                                    |                                                                     | round any number to the nearest 10, 100 or 1 000                                                               | round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000                                            | round any whole number to a required degree of accuracy                                                               |
|                 |                                                    |                                                                     | <i>round decimals with one decimal place to the nearest whole number</i><br>(copied from Fractions)            | <i>round decimals with two decimal places to the nearest whole number and to one decimal place</i><br>(copied from Fractions) | <i>solve problems which require answers to be rounded to specified degrees of accuracy</i><br>(copied from Fractions) |
| PROBLEM SOLVING |                                                    |                                                                     |                                                                                                                |                                                                                                                               |                                                                                                                       |
|                 | use place value and number facts to solve problems | solve number problems and practical problems involving these ideas. | solve number and practical problems that involve all of the above and with increasingly large positive numbers | solve number problems and practical problems that involve all of the above                                                    | solve number and practical problems that involve all of the above                                                     |