



# Mathematics Progression- Number and Place Value



**Represent:** Read, write (order and compare) numbers up to 10,000,000 and determine the value of each digit.

**Use/ Compare:** (read, write) order and compare numbers up to 10,000,000 and determine the value of each digit.

**Problems/ Rounding:** Round any number to a required degree of accuracy.

M	HTh	TTh	Th	H	T	O
		●●●	●●	●	●	●●

**Represent:** Read, write, (order and compare) numbers to at least 1,000,000 and determine the value of each digit.

**Represent:** Read Roman numerals to 10000 (M) and recognise years written in Roman numerals.

**Use/ Compare:** (read, write) order and compare numbers to at least 1,000,000 and determine the value of each digit.

**Use/ Compare:** Interpret negative numbers in context.

**Use/ Compare:** Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10,000 and 100,000.

**Use/ Compare:** Solve number problems and practical problems that involve all of the above.

**Problems/ Rounding:** Use rounding to check answers to calculations and determine, in the context of the problem, levels of accuracy.

## Year 6

**Problems/ Rounding:** Use negative numbers in context, and calculate intervals across zero.

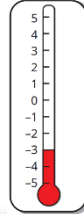
**Problems/ Rounding:** Solve number and practical problems that involve all of the above.

1,000,000	2,000,000	3,000,000	4,000,000	5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000	200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000	20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9



**Represent:** Identify, represent and estimate numbers using different representations.

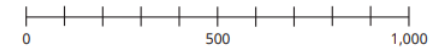
**Counting:** Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number.



**Counting:** Count forwards and backwards with positive and negative whole numbers, including through zero.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

**Counting:** Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000.



**Counting:** Count in multiples of 6, 7, 9, 25 and 1000.

**Represent:** Identify, represent and estimate numbers using different representations.

**Use/ Compare:** Find 1000 more or less than a given number.

**Represent:** 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.

## Year 4

**Problems/ Rounding:** Solve number problems and practical problems involving these ideas.

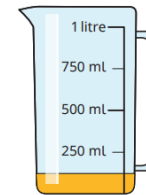
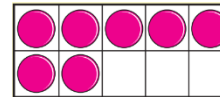
**Represent:** Identify, represent and estimate numbers using different representations, including the number line.

H	T	O
●●●	●	●●

## Year 3

**Use/ Compare:** Recognise the place value of each digit in a three-digit number (hundreds, tens and ones).

**Use/ Compare:** Compare and order numbers to 1000.



**Represent:** Read and write numbers to 100 in numerals.

**Use/ Compare:** Given a number, identify one more and one less.

## Year 2

**Problems/ Rounding:** Use place value and number facts to solve problems.

**Represent:** Identify, represent and estimate numbers using different representation, including the number line.

**Counting:** Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward.

**Use/ Compare:** Recognise the place value of each digit in a two-digit number (tens, ones)



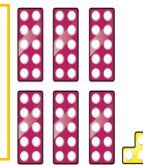
**Represent:** Identify and represent numbers using objects and pictorial representations.

**Represent:** Read and write numerals from 1 to 20 in numerals and words.

## Year 1

**Counting:** Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number.

**Counting:** Count numbers to 100 in numerals; count in multiples of twos, fives and tens.



**Patterns:** Explore and represent patterns within numbers up to 10.

**Patterns:** Compare quantities up to 10 in different contexts.

**Number:** Link the number symbol (numeral) with its cardinal number value.

## EYFS

**Patterns:** Count beyond 20.



**Number:** Subitise up to 5.

**Number:** Explore the composition of numbers to 10.