Number and Place Value

Lesson sequence

Partitioning and representing numbers to 10,000
Finding 1, 10, 100, 1000 more or less
Comparing and ordering numbers to 10,000
Roman numerals
Round to the nearest 10
Round to the nearest 100
Round to the nearest 1000

Vocabulary revision

- *Hundreds*
- *Zero*
- *Digit*
- *Multiple*
- *Less than*
- *Least*
- *Most*
- *Fewer*
- *One-, two- or three-digit number*
- *Represents*
- *Place value*
- *Part*
- *Partition*
- *Thousands*
- *Approximate*
- *Approximately*
- *Nearest*
- *Nearest ten*
- *Roman numeral*

Sticky learning

New Knowledge

- *To know that hundredths arise when dividing an object by one hundred and dividing tenths by ten*
- *To know the roman numerals L=50 and C=100*
- *To know that over time, the numeral system changed to include the concept of zero and place value.*
- *To know that negative numbers are numbers that are less than zero.*
- *To know the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)*

New Skills

- *To count backwards through zero to include negative numbers*
- *To count in multiples of 6, 7, 9, 25 and 1000*
- *To find 1000 more or less than a given number*
- *To order and compare numbers beyond 1000*
- *To compare numbers with the same number of decimal places up to two decimal places*
- *To identify, represent and estimate numbers using different representations*
- *To read Roman numerals to 100 (I to C)*
- *To round any number to the nearest 10, 100 or 1 000*
- *To solve number and practical problems that involve all of the above and with increasingly large positive numbers*

New vocabulary I will learn

- *Thousands*
- *Ten of thousands*
- *Hundredths*
- *One-, two-, three- or four-digit number*
- *Integer*
- *Positive*
- *Negative*
- *Above/below zero*
- *Decimal*
- *Decimal point*

Pictorial representations

Tens of thousands	Thousands	Hundreds	Tens	Ones	1/10	1/100

Counting in 6s

0	6	12	18	24	30	36	42	48	54	60

Counting in 7s

0	7	14	21	28	35	42	49	56	63	70

Counting in 9s

0	9	18	27	36	45	54	63	72	81	90

Counting in 25s

0	25	50	75	100	125	150	175	200	225	250

Counting in 1000s

0	1000	2000	3000	4000	5000	6000	7000	8000	9000	10 000

Rounding to nearest 10

20	21	22	23	24	25	26	27	28	29	30

round down ← → round up

Rounding to the nearest 100

200	249	250	300

round down ← → round up

Rounding to the nearest 1000

2000	2499	2500	3000

round down ← → round up

Concept Links/Prior Knowledge

- *To know all the numbers up to 1000*
- *To know the place value of each digit in a three-digit number (hundreds, tens, ones)*
- *To know that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers or quantities by 10.*
- *To know the roman numerals I=1, V=5 and X=10*
- *To count from 0 in multiples of 4, 8, 50 and 100*
- *To find 10 or 100 more or less than a given number*
- *To compare and order numbers up to 1 000*
- *To identify, represent and estimate numbers using different representations*
- *To read and write numbers up to 1 000 in numerals and in words*
- *To solve number problems and practical problems*