In this unit, I will:

- Learn to read and write numbers to 10,000,000
- Partition, compare and order numbers up to 10,000,000
- Round numbers
- Work with negative numbers

Year 6
Number – Place Value
(Up to 10,000,000)

How does this unit build on prior learning?

In this unit, children extend their knowledge of numbers from within 1,000,000 to within 10,000,000, before they go on to work with the four operations in the next two units. This includes looking at place value, ordering and comparing numbers and rounding. They will also look at number lines and negative numbers.

Before they start this unit, it is expected that children understand the place value of numbers within 1,000,000, can use number lines, including counting in 10s, 100s, 1,000s and 10,000s and can round numbers within 1,000,000.

National Curriculum Link - Year 5
Decimals

- read, write, order and compare numbers up to 10 000 000 and determine the value of each digit
- solve number and practical problems that involve all of the above
- round any whole number to a required degree of accuracy
- use negative numbers in context, and calculate intervals across zero

Key vocabulary

ten million	To The number that is represented as a one followed by 7 zeros
millions	one thousand thousands
hundred thousands	100,000 is the number that follows 99,999
ten thousands	quantity consisting of 10,000 items or units.
partition	divide into parts
interval	numbers between two specific values.
estimate	roughly calculating or judging a number or value
compare	examine the differences between numbers, quantities or values to decide if it is greater than, smaller than or equal to another quantity
order	Putting things into their correct place following some rule.
place value	The value of a digit depending on which column it is in.
rounding	a way to change a number to a shorter or simpler number that is very close to the original number
positive	numbers that are greater than zero
negative	Numbers that are less than zero

Round Any Number

Rounding to the nearest 1000

2000 ◄ 2499 | 2500 ► 3000

round down | round up

Rounding to the nearest 10 000

20 000 ◄ 24 999 | 25 000 ► 30 000

round down | round up

Numbers to Ten Million

three million, nine hundred and twenty-six thousand, four hundred and seventy-one

Compare and Order

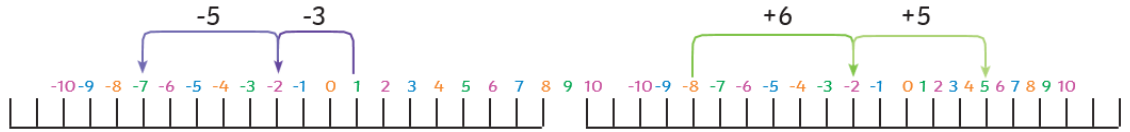
equals	greater than	less than
26 + 38 = 8 × 8	223 873 > 98 256	901 198 < 1 091 098
Both calculations have the value 64.	The number on the left has 2 hundred thousands and the number on the right has 0 hundred thousands.	The number on the right has 1 million and the number on the left has 0 millions.

Smallest: 81 782 | 127 352 | 127 835 | 137 019 | 200 002 : Greatest

Negative Numbers

3 - 8 = -5

-6 + 11 = 5



Maths at Alice Ingham