ESSENTIAL VOCABULARY

| O | Ones |
| :---: | :---: |
| T | Tens |
| H | Hundreds |
| Th Thousands |  |
| TThs | Tens of thousands |

## Compare and Order



## Negative Numbers

$3-8=-5 \quad-6+11=5$


The temperature drops by $2^{\circ} \mathrm{C}$. The new temperature is $-4^{\circ} \mathrm{C}$

## LINKS TO PREVIOUS LEARNING

Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1 . Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01 . Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01 .
Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and non-standard
partitioning.
Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each.

## Round Any Number



Rounding to the nearest 10000

| $\mathbf{2 0 0 0 0} \longleftrightarrow \mathbf{2 0} 999$ | $\mathbf{2 5 0 0 0} \longrightarrow \mathbf{3 0 0 0 0}$ |
| :---: | :---: | :---: |
| round down | round up |

Rounding to the nearest 100000
$200000 \longleftrightarrow 249999250000 \longrightarrow 300000$ round down round up

Rounding to the nearest 1000000
$\mathbf{2 0 0 0 0 0 0}$ — $24999992500000 \longrightarrow \mathbf{3 0 0 0} 000$ round down round up


Powers of 10

The Gattegno chart shows that 400,000 is one hundred times bigger than 4,000. One-thousandth of 4,000 is 4 .

| 0.001 | 0.002 | 0.003 | 0.004 | 0.005 | 0.006 | 0.007 | 0.008 | 0.009 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0.01 | 0.02 | 0.03 | 0.04 | 0.05 | 0.06 | 0.07 | 0.08 | 0.09 |
| 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 | 0.9 |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 |
| 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 | 900 |
| 1000 | 2000 | 3000 | 4000 | 5000 | 6000 | 7000 | 8000 | 9000 |

Line up the digits so that the place value is accurate. Like this...

## Stem Sentences

## Speaking Frame - Comparing Numbers

I am looking at the ... place value column because ...
I know that $\square$ is greater than $\square$ because ...
$\square$ must be smaller than $\square$ because ...
digit, position, less than, more than, whole number

| Representing Numbers |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| M | HTH | TTH | TH | H | T | 0 |
|  | $\bigcirc$ |  |  |  |  | $\bigcirc$ |
| The counters on this place value chart show the number $2,130,421$. This is written as two million, one hundred and thirty thousand, four hundred and twenty-one |  |  |  |  |  |  |

