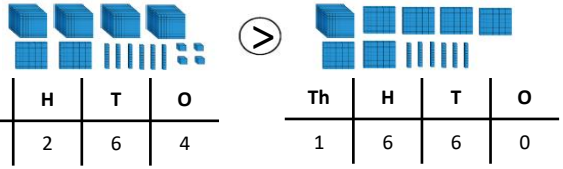
Castlefield School- Maths

Topic: Numbers within 10,000	Year: Four	Theme: Place Value

Key concepts and questions

How do you know which number is greater?

Use place value grids to identify digit value. Compare the greatest value first. 4,264 has 4 thousands, 1,660 only 1 thousand, so 4,264 is greater.



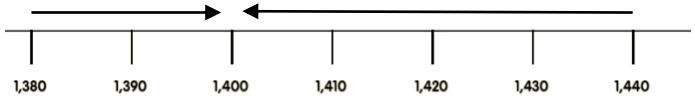
Th	H	T	O
4	2	6	4

Th	H	T	O
1	6	6	0

Can multiple numbers round to the same number?

1 to 4 round down, 5-9 round up.

So, multiple numbers do round to the same number. e.g. 1,440 and 1,380 will both round to 1,400 when rounded to the nearest 100.



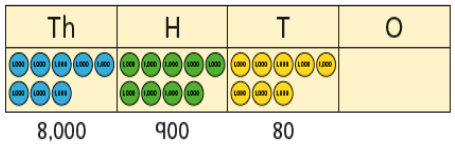
Representations

Part Whole Model:

Helps with partitioning numbers in multiple ways.

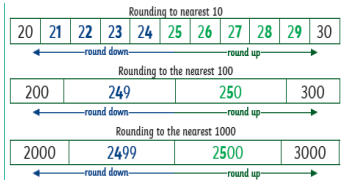
Place Value Grid

Helps organise numbers so they can be ordered and compared.



Number lines

These can help to round, order and compare numbers up to 10,000.



Key Vocabulary

place value	digit	partition	thousands
hundreds	tens	ones	zero
greater than	>	equal to	= same as
less than	<	counting	6, 7, 9, 25 , 1000s
order	ascending and descending	round	nearest 10, 100 & 1000
negative number	numbers less than 0	Roman numerals	

I	V	X	L	C
1	5	10	50	100

Making connections

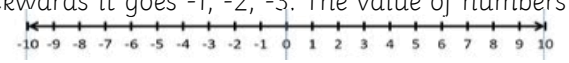
Number bonds

3+7=10
30+70=100
300+700=1,000
3,000+7,000=10,000

Positive and negative numbers

When counting forward from 0 it goes 1, 2, 3. The value of numbers becomes greater.

When counting backwards it goes -1, -2, -3. The value of numbers becomes smaller.



Bridging

Counting can cross a multiple of 10, 100 or 1 000. For example, if counting in 100s and the 100s digit is a 9, you bridge into the next multiple of 1,000.

Th	H	T	O
4	9	6	4

→

Th	H	T	O
5	0	6	4

Roman numerals

Analogue clocks often use Roman numerals.