Edward Peake Church of England Middle School

Topic: Place Value

Year: 5

NC Strand: Number

What should I already know? • How to count in multiples of 25 and 1000

- How to find 1000 more or less than a given number
- How to recognise the place value of each digit in a four-digit number
- How to order and compare numbers beyond 1000
- How to identify, represent and estimate numbers using different representations
- How to round any number to the nearest 10, 100 and 1,000
- How to solve number and practical problems that involve all of the above and with increasingly large positive numbers
- How to count backwards through zero to include negative numbers

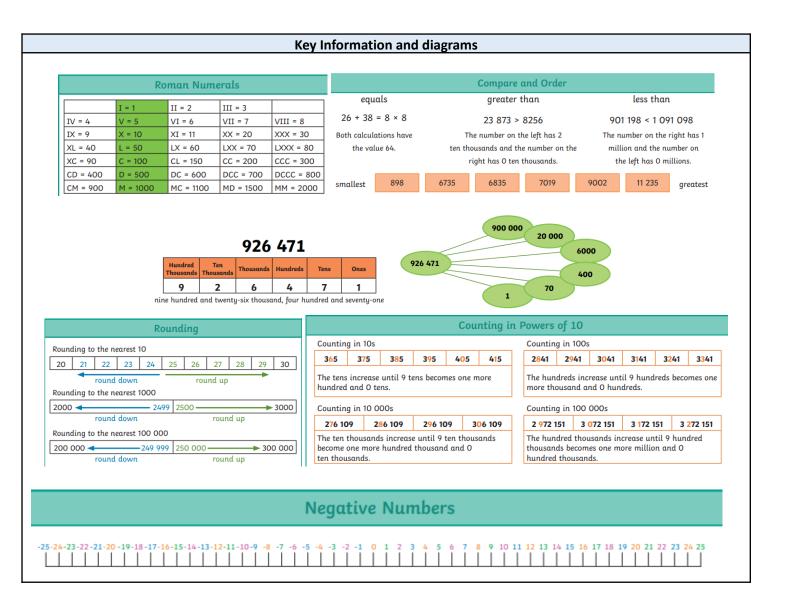
What will I know by the end of the unit?

- How to read, write, order and compare numbers to 10,000
- How to read Roman numerals to a 1000
- How to round any number to the nearest 10, 100 and 1000 up to 10,000
- How to read and write numbers to 100,000
- How to compare and order numbers to 100,000
- How to round numbers to the nearest 10, 100, 1000 and 10,000 up to 100,000
- How to read write and represent numbers up to 1,000,000
- How to count forwards and backwards in 10s, 100s, 10,000s, 10,000s, and 100,000s
- How to compare and order numbers up to 1,000,000 using the correct vocabulary and symbols
- How to round numbers to the nearest 10, 100, 1000, 100,000 up to 1,000,000
- How to solve number and practical problems that involve all of the above

Vocabulary				
million	1,000,000	Round (rounded)	to change a number to a more convenient value.	
ten thousand	10,000	less than	not as many as.	
thousand	1,000	order	arrangement according to size, amount or value.	
hundreds	100	negative number	any number less than zero	
tens	10	partition	a strategy that splits (partitions) numbers into smaller addends,	
ones	1	digit	symbol used to show a number.	
zero	0	interval	between two points or values.	
place value	the value of a digit depending on its place in a number.	sequence	ordered sets of numbers, shapes or other mathematical objects, arranged according to a rule.	
greater than	is more than	linear sequence	A sequence that that increases or decreases from term to term by a constant amount	

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Investigate/Homework tasks

- Homework will be set from the booklet issued by your teacher
- You should complete at least 30 minutes of maths tasks on Maths Whizz (not games). Please attend help sessions if you do not have access to the internet at home
- Additional work you could complete:
 - Find out more about the meaning of the vocabulary list using http://www.amathsdictionaryforkids.com/
- To challenge yourself: Answer the key questions to deepen your knowledge
 - \circ $\;$ Investigate the key questions typed in red text
 - \circ $\;$ Explain the key questions typed in purple text $\;$
 - \circ $\,$ Challenge yourself by answering the questions typed in green text $\,$

Key Questions to deepen your knowledge

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 Can you show me 8,045 in three different ways? Which columns change when adding 10, 100 100 2056? When rounding to the nearest 100 or 1000. Will answer always, sometimes or never be the same Why is there no zero in roman numerals? Do you notice any patterns in the Roman number system? Make up a sequence with negative numbers in. What number does MMXV11 represent? 	 Why can't we just look at the thousands column when we are ordering four digit numbers? Do we include zero when counting backwards? Which digits do you look at when rounding to the 			