



St John Fisher RC Primary School

Year 6 Maths Knowledge Organiser

Autumn Term One Block 1 – Place Value (1)

Objectives	Teacher
I can read, write, order and compare numbers to at least 10,000,000 (ten million) and say the value of each digit.	
I can show an understanding of place value including decimals.	

Order & Compare Numbers to 10,000,000 (ten million)

3 926 471

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	9	2	6	4	7	1

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

3 926 471
3 926 000 471



equals

$$26 + 38 = 8 \times 8$$

Both calculations have the value 64.

greater than

$$223\ 873 > 98\ 256$$

The number on the left has 2 hundred thousands and the number on the right has 0 hundred thousands.

less than

$$901\ 198 < 1\ 091\ 098$$

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

Key Vocabulary

Thousands	The position containing a digit representing that number followed by three zeros: in 4,760, 4 is in the thousand's place.
Ten Thousands	The position containing a digit representing that number followed by four zeros: in 84,760, 8 is in the ten thousand's place.
Hundred Thousands	The position containing a digit representing that number followed by five zeros: in 384,760, 3 is in the hundred thousand's place.
Millions	The position containing a digit representing that number followed by six zeros: in 5,384,760, 5 is in the millions place.
Ten Millions	The position containing a digit representing that number followed by seven zeros: in 25,384,760, 2 is in the ten millions place.
Place Value	Place value is the value of each digit in a number e.g. the 6 in 863 represents 6 tens, or 60 etc...
Greater Than	When one number is greater than another we use a greater than symbol e.g. 35,600 > 25,600.
Less Than	When one number is less than another we use a less than symbol e.g. 27,200 < 29,600.
Equals	When one number is the same as the other number we use an equals symbol e.g. 234 = 234.

Sentence Stems

The value of the ___ in ___ is ___ .	The column before/after the ___ column is the ___ column.
The whole of the number is said/written as ___ .	___ is less than/greater than ___ .

Assessment

I can read, write, order and compare numbers to at least 10,000,000 (ten million) and say the value of each digit.	I can show an understanding of place value including decimals.
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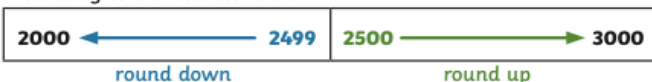
Year 6 Maths Knowledge Organiser

Autumn term One Block 1 – Place Value (2)

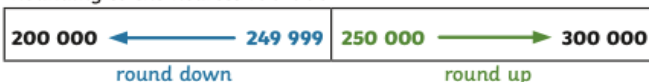
Objectives	Teacher
I can round any number to a required degree of accuracy.	
I can use negative numbers in context when looking at temperature or money, counting in jumps forwards and backwards through 0.	
I can solve number and practical problems that involve ordering and comparing numbers up to 10,000,000, rounding to a required degree of accuracy, using negative numbers and calculating intervals across zero.	

Rounding

Rounding to the nearest 1000



Rounding to the nearest 100 000



Rounding to the nearest 10 000



Rounding to the nearest 1 000 000



Negative Numbers

$$3 - 8 = -5$$

$$-6 + 11 = 5$$



Key Vocabulary

Greater than	When one number is greater than another we use a greater than symbol e.g. 35,600 > 25,600.
Less than	When one number is less than another we use a less than symbol e.g. 27,200 < 29,600.
Equal	When one number is the same as the other, or equal, we say that they are equal.
Rounding	Rounding means replacing a number with an approximate value that has a shorter, simpler, or more explicit representation. E.g. £37,870 rounded to the nearest 10 thousand = £40,000.
Positive	A number with a greater value than zero.
Negative	A number with a lesser value than zero.

Sentence Stems

The previous multiple of ____ is ____.	____ rounded to the nearest ____ is ____.
To find the number ____ greater/less than ____, I count ____ on the number line.	____ is ____ away from zero.

Assessment