



# Maths Knowledge Organiser

## Year 4: Number and Place Value

### Prior Knowledge (Y3 Unit 1)

- Know the place value of each digit in a three-digit number
- Read and write numbers up to 1,000
- Order numbers up to 1000 (number line)
- Finding 1, 10 and 100 more or less
- Count from 0 in multiples of 4, 8, 50 and 100

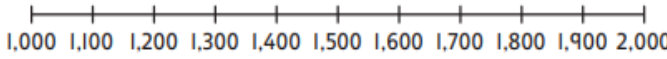
### Structures and Representations

#### Place Value Grid


Th	H	T	O
8,000	900	80	

Th	H	T	O
8,000	900	80	

#### Number Line



Base 10 equipment, place value counters and blank counters.



- Tens (10s), hundreds (100s), thousands (1000s)
- Rounding, counting, represent, compare, order
- More than (>) less than (<)
- Partition, recombine
- Numerals
- Nearest
- Distance

### Counting

6:  
6, 12, 18, 24, 30, 36, 42, 48, 54, 60, 66, 72

7:  
7, 14, 21, 28, 35, 42, 49, 56, 63, 70, 77, 84

9:  
9, 18, 27, 36, 45, 54, 63, 72, 81, 90, 99, 108

25:  
25, 50, 75, 100, 125, 150, 175, 200, 225, 250

1000:  
1000, 2000, 3000, 4000, 5000, 6000, 7000

### Compare and Order

Th	H	T	O
4	3	2	4

**4324 > 3243**  
greater than

Th	H	T	O
3	2	4	3

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8	7	9
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**879 < 2126**  
less than

2	1	2	6
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2497
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2508
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3012
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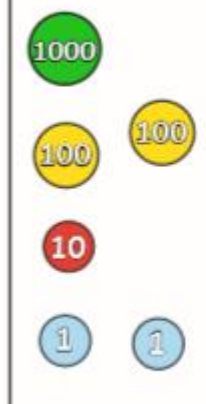


3521
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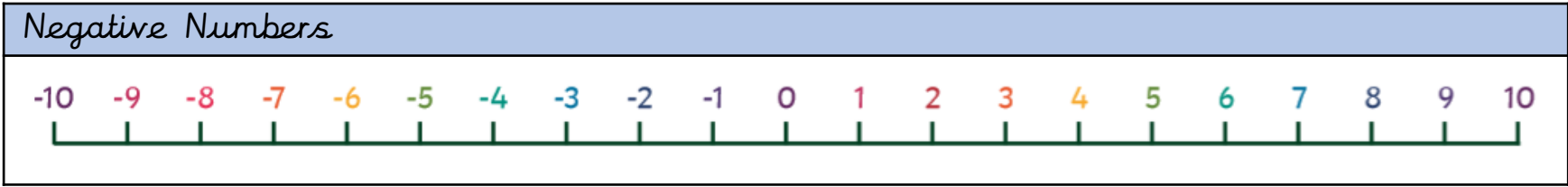
3530
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4002
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smallest greatest

### 1000 more, 1000 less

1000 Less		1000 More
 <p>1212</p>	 <p><b>2212</b></p>	 <p>3212</p>



### Roman Numerals

one	1	I
five	5	V
ten	10	X
fifty	50	L
one hundred	100	C

**XVIII = 18**  
**XXIX = 29**  
**LXXXIV = 84**

### Represent 4-digit Numbers

**3487**

three thousand, four hundred and eighty-seven

1000s	100s	10s	1s

Thousands	Hundreds	Tens	Ones

### Rounding Numbers

Tips and tricks

- Find your number and circle it.
- Look next door
- 4 or less, just ignore
- 5 or more, add 1 more (to the circled number)
- Replace the rest with zeroes

