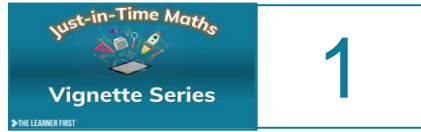


# Just-in-Time Maths

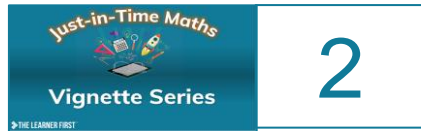


## Vignette Series

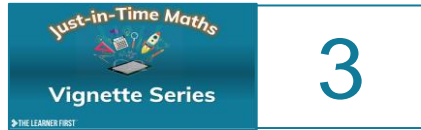
# Just-in-Time Vignettes



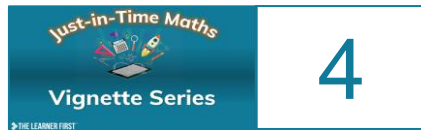
Curriculum intent



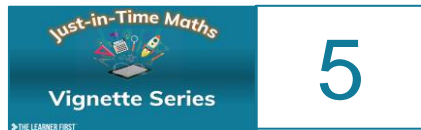
A rich balance



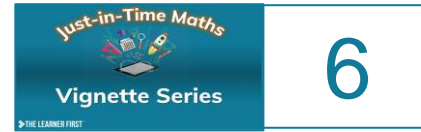
NZ Maths - a great place to start



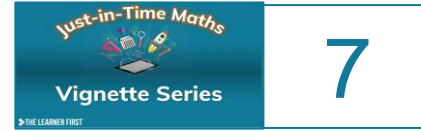
Place Value – The big ideas



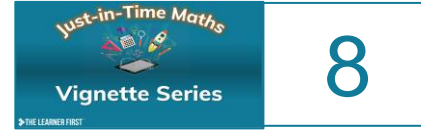
Place Value – read, write and order



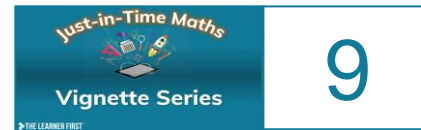
Place Value – expand and nest



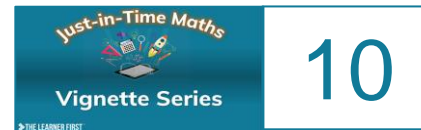
Place Value – rename and round



Place Value- mental computation



Rapid Routines



Assessment

# Just-in-Time Maths



Vignette

5

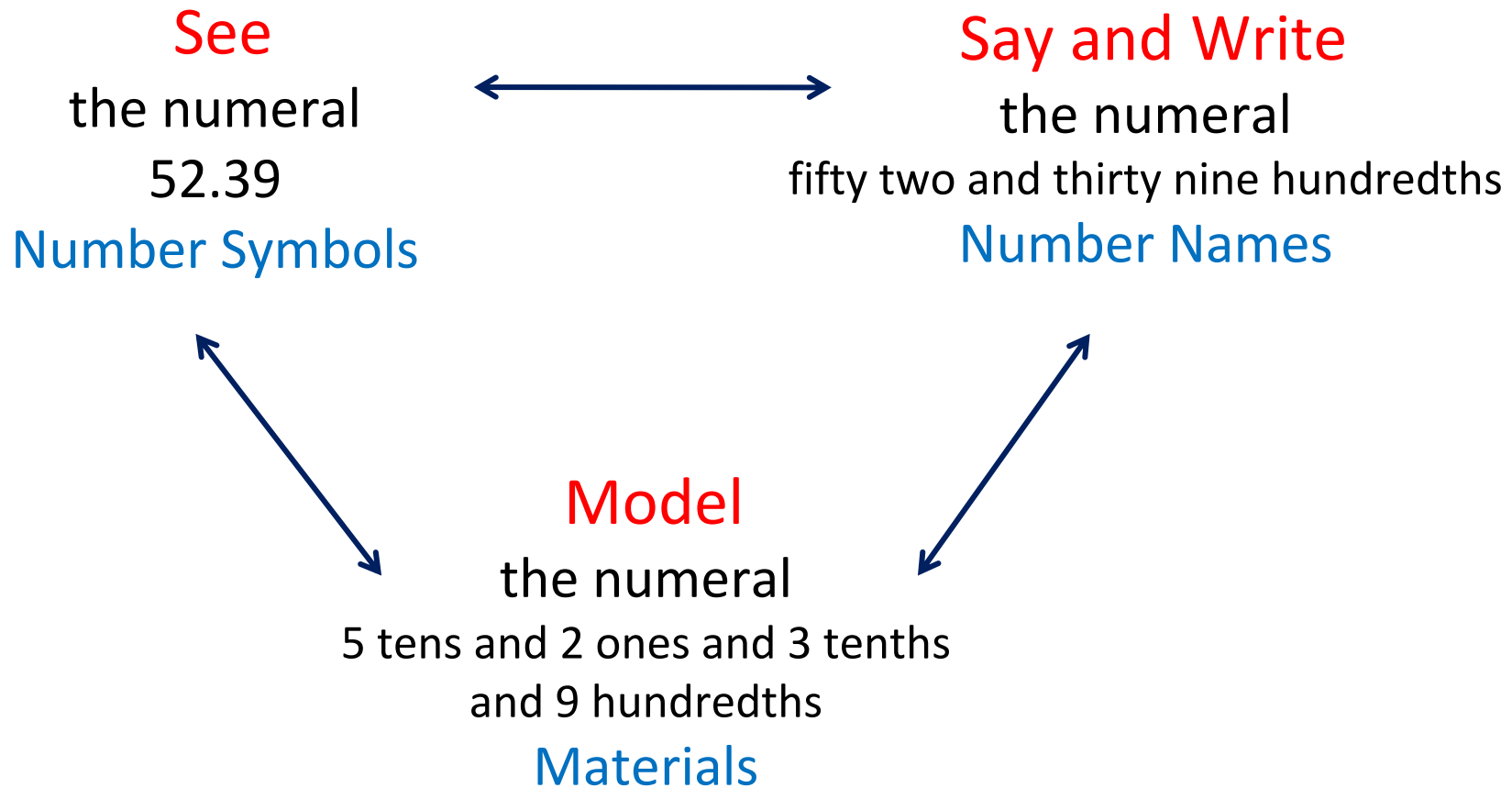
Read, write and order

# Scope and sequence to Level 4

	Number Knowledge							
	Level 1		Level 2		Level 3		Level 4	
	After 1 year	After 2 years	After 3 years	After 4 years	After 5 years	After 6 years	After 7 years	After 8 years
<b>Number Range</b> <i>at least to</i>	<b>20</b>	<b>100s</b>	<b>1000s</b>	<b>10 000s</b>	<b>100 000s &amp; 0.1</b>	<b>1 000 000 &amp; 0.01</b>	<b>&gt;1 000 000 and &lt; 0.01</b>	
<b>Read &amp; write</b> <i>Represent, read and record numbers</i>	Seventeen (17)	One hundred and twenty-five (125)	Two thousand and twenty-five (2025)	Twenty thousand, four hundred & five (20,405)	3 and 4 tenths (3.4)	Ten and fifteen hundredths (10.15)	millions and billions thousandths, millionths	
<b>Order &amp; compare</b> <i>Numbers in the range ..</i>	0-20	0-100	0-1,000	0-100,000	0-1,000,000	tenths & hundredths	tenths, hundredths and thousandths	
<b>Round</b> <i>Round numbers to the nearest ..</i>		ten	hundred	thousand	million	tenths & hundredths	tenths, hundredths and thousandths	
<b>Name &amp; Expand</b> <i>Name, model and expand</i>	<b>17</b> 10+7	<b>125</b> 100+20+5 1 hundred, 2 <u>tens</u> and 5 ones	<b>2,025</b> 2,000+20+5 5 means 5 ones	<b>20,405</b> 20,000+400+5 4 means 4 hundreds	<b>175 525</b> 100,000+70,000+5,000+500+20+5 2 means 2 tens	<b>12.5</b> 10 + 2 + 0.5 1 ten, 2 ones, 5 tenths 1 means 1 ten	8753 = $8 \times 10^3 + 7 \times 10^2 + 5 \times 10^1 + 3 \times 10^0$ 2.45 = $2 \times 10^0 + 4 \times 10^{-1} + 5 \times 10^{-2}$	
<b>Nesting</b> <i>Number can have different names without changing the value. (includes unitising and re-unitising – 30 ones is 3 tens)</i>	<b>17</b> 1 ten, 7 ones	<b>125</b> 12 hundreds and 5 ones <b>100</b> is 10 tens	<b>656</b> 65 tens and 6 ones <b>1,000</b> is 10 hundreds or 1 thousand	<b>20,405</b> 20 thousands and 405 ones or <b>10,000</b> is 100 hundreds or 10 thousands	<b>175,525</b> 17 tens thousands, 50 hundreds, 2 tens, 5 ones <b>100,000</b> is 1,000 hundreds or 100 thousands	<b>12.5</b> 1 ten and 25 tenths <b>1.00</b> is 10 tenths, 100 hundredths	<b>2.47</b> 2 whole and 47 hundredths <b>10 000 000</b> is 10 000 thousands	
<b>Renaming</b> <i>Numbers can be rearranged in terms of place value without changing the value</i>		<b>125</b> is 11 tens and 15 ones	<b>3250</b> is 30 hundreds and 250 ones	<b>12 505</b> is 11 ten thousands and 1505 ones	<b>125 475</b> is 124 thousands and 1475 ones	<b>1.2</b> is 11 tenths and 10 hundredths	<b>10.75</b> is 107 tenths and 5 hundredths or 1 ten and 75 hundredths	



# Connecting Numbers with Numerals



# Read and write

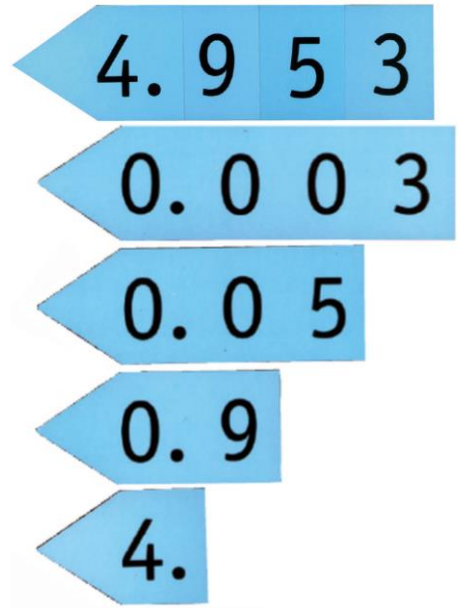
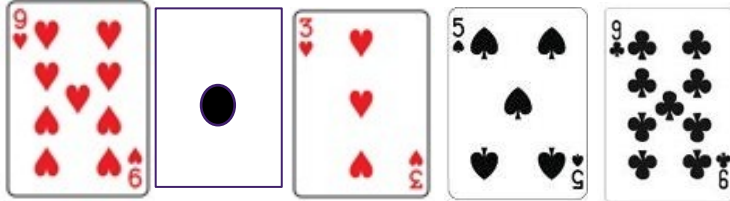
MILLIONS			THOUSANDS			ONES			PARTS OF ONE	
H	T	O	H	T	O	H	T	O	T	H
	8	3	5	1	0	5	8	5	●	

Read digits in the millions house and say **eighty three million**

Read digits in the thousands house and say **“five hundred and ten thousand”**

Read digits in the ones house and say **“five hundred and eighty five”**

# Rapid routines - Dealing Decimals



Thousands			Ones			Parts of One	Hundredths			Thousandths			
H	T	O	H	T	O	T	H	O	T	H	O	T	H

# Rapid Routines- Ordering Decimals

0.
0.
0.
0.
0.
0.
0.045
0.



1. Roll a dice labeled 1,2,3 to determine how many dice you will roll on your turn (1, 2, or 3)
2. Roll your allocated amount of dice (1, 2 or 3)
3. Arrange your dice to make a 1,2, or 3 decimal number
4. Record this decimal on your rocket
5. Read your decimal aloud to your partner

The goal of the game is to fill your rocket first with decimals in order.

