10s

Year 2

Place Value in 2-digit numbers (1)

Vocabulary:

OnesTensDigitRepresentsPlaceValueGattegnoChartColumnModelPartWholeAddendSumMinuendSubtrahendDifferencePlusMinusEqualsCombinePartition



1s

23 23 ones 2 tens and 3 ones

Recognise 2-digit numbers are composed of tens and ones.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

1000	2000	3000	4000	5000	6000	7000	8000	9000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

Tap out 2-digit numbers on the Gattegno Chart.

Make connections to how we write the number.

Locate the position of two-digit numbers on a 100 square and make connections with other 2-digit numbers.





Create 2-digit numbers using Deines and record the number numerically.

Year 2 Place Value in 2-digit numbers (2)

Vocabulary:

Ones Tens Digit Represents Place Value Gattegno Chart Column Model Part Whole Addend Sum Minuend Subtrahend Difference Plus Minus Equals Combine Partition





Make connections between the Deines and 100 square.

2 tens and 3 ones



23	
20	3

20 + 3 = 23
3 + 20 = 23
~ ~ ~ ~
23 = 20 + 3
23 = 3 + 20
23 – 20 = 3
23 - 3 = 20
3 = 23 - 20

00 0.00	
23 = 3 + 20	Partition 2-digit numbers in the
23 – 20 = 3	abstract forms of bar model and part- part-whole model (cherry model)
23 – 3 = 20	Record our understanding as additive
3 = 23 – 20	equations.
20 = 23 – 3	



Partition 2-digit numbers into tens and ones.

Year 3

Place Value in 3-digit numbers

Vocabulary:

OnesTensHundredsDigitRepresentsPlace ValueCountersGattegnoPartitionCombineEquationAddendSumMinuendSubtrahendDifference



Year 4

Place Value in 4-digit numbers

Vocabulary:

OnesTensHundredsThousandsDigitRepresentsPlace ValueCountersGattegnoPartitionCombineEquationAddendSumMinuendSubtrahendDifference





1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1		3	4	5	6	7	8	9
		5,000 +	300 +	40 +	2 = 5,3	42		

5,342 = 40 + 2 + ____ + ____

Form 4-digit numbers using a Gattegno chart.

Identify missing parts of an equation.

1,000s	100s	10s	1s
5	3	4	2





Year 5

Place Value in decimal fractions

Vocabulary:

OnesTensTenthsHundredthsRepresentsDigitPlace ValueCountersGattegnoPartitionCombineEquationAddendSumMinuendSubtrahendDifference



10s	1s	0.1s	0.01s
5	3	4	2

Represent on a Place Value Chart and describe each value.

The digit in the tens place is 5. It has a value of 50.

The digit in the ones place is 3. It has a value of 3.

The digit in the tenths place is 4. It has a value of 0.4.

The digit in the hundredths place is 2. It has a value of 0.02.



tenths hundredths



Skip count in one-hundredths recognising the number of hundredths in a 2-digit decimal fraction.



4 tenths and 2 hundredths

1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

Make connections between different representations of decimal fractions with the Gattegno Chart.

Year 5

Place Value in decimal fractions

Vocabulary:

Ones Tens Tenths Hundredths Represents Digit Place Value Counters Equation Addend Sum Minuend Gattegno Partition Combine Difference Subtrahend



Form 4-digit numbers including decimals using a Gattegno chart.								
72.49 = 0.09 + 2 + +								
	0.02	+	0.4 +	+ 3	+	50	= 53.42	
0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09
0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
1	2	(3)	4	5	6	7	8	9
10	20	30	40	50	60	70	80	90
100	200	300	400	500	600	700	800	900
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000

Identify missing parts of an equation.



Explore non-standard partitioning using part-part-whole models and place value counters.



	\square	\square	

fractions using deines, place value counters and a place value chart.





Year 6

Place Value in Numbers up to 10,000,000.





rm numbers to 10,000,000 using place lue counters and the part-part-whole model.
The 2 represents 2 tens
The 9 represents 9 hundreds
e 3 represents 3 hundred thousands.
Write as an additive equation.



1,000,000		2,000,000	2,000,000 3,000,000		5,000,000	6,000,000	7,000,000	8,000,000	9,000,000
100,000		200,000	300,000	400,000	500,000	600,000	700,000	800,000	900,000
10,000		20,000	30,000	40,000	50,000	60,000	70,000	80,000	90,000
1,000		2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
	100	200	300	400	500	600	700	800	900
	10	20	30	40	50	60	70	80	90
\mathbf{k}	1	2	3	4	5	6	7	8	9
	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9
	0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09

200,000 + 10,000 + 100 + 20 = 210,120

M	lillion	S	Thousands			Ones			
100s	10s	1s	100s	10s	1s	100s	10s	1s	
					1	9	3	7	
				5	1	9	3	7	
			4	5	1	9	3	7	
		5	4	5	1	9	3	7	

Read numbers to 10,000,000. Focus on the structure of millions, thousands and ones.

5 million, four hundred and fifty one thousand, nine hundred and thirty one (ones). Make connections between different representations of numbers to 10,000,000 with the Gattegno Chart.

3,870,291.46

N	Aillions	3	Thousands			Ones				
100s	10s	1s	100s	10s	1s	100s	10s	1s	0.1s	0.01s
		3	8	7	0	2	9	1	4	6

Recognise the value of each digit.

The 3 represent 3 million.