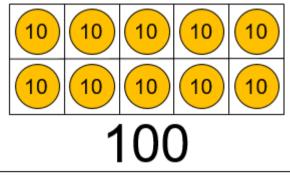
Year 3

Equivalence of 10 tens and 1 hundred (1)

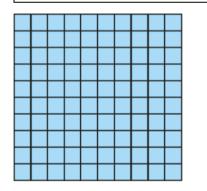
Place Value Digit Tens Hundreds Represents Counters Pence Ones Next Gattegno Coin **Tens Frame** Multiple Previous Deines One-tenth the size Ten-times the size Centimetres Metres

Vocabulary:



Count in multiples of 10 to 100 using Place Value Counters.

Ten tens are equivalent to 100.



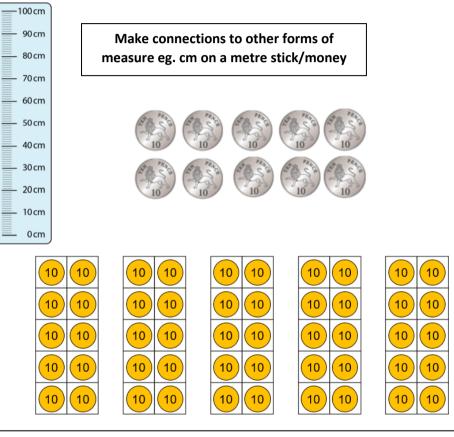
	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н
										E
•	Н	Н	Н	H	H		\square		H	H
							H		H	H
		Н	H				Н		H	H

Demonstrate using Deines that 10 tens are equal to 1 hundred.



Numberblocks – Season 4

Episode: One hundred



Recognise the number of tens in a three-digit number.

10 tens are equivalent to 100.

18 tens are equivalent to 180.

Grouping and Exchanging Models

Year 3

Equivalence of 10 tens and 1 hundred (2)

OnesTensHundredsPlace ValueDigitRepresentsCountersPenceCoinTensFrameMultiplePreviousNextGattegnoDeinesOne-tenth thesizeTen-times the sizeCentimetresMetres

10	20	30	40	50	60	70	80	90	100
110	120	130	140	150	160	170	180	190	200
210	220	230	240	250	260	270	280	290	300
310	320	330	340	350	360	370	380	390	400
410	420	430	440	450	460	470	480	490	500
510	520	530	540	550	560	570	580	590	600
610	620	630	640	650	660	670	680	690	700
710	720	730	740	750	760	770	780	790	800
810	820	830	840	850	860	870	880	890	900
910	920	930	940	950	960	970	980	990	1,000

Count in multiples of ten up to 1000.

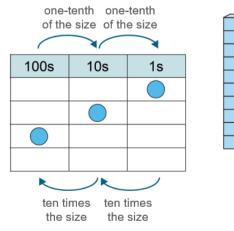
Ten, Twenty, Thirty...

One ten, two tens, three tens...

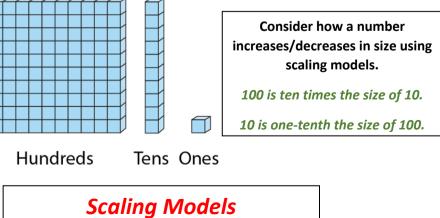
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

Tap the Gattegno chart in multiples of 10.

Create multiples of ten using the Gattegno chart.



Vocabulary:

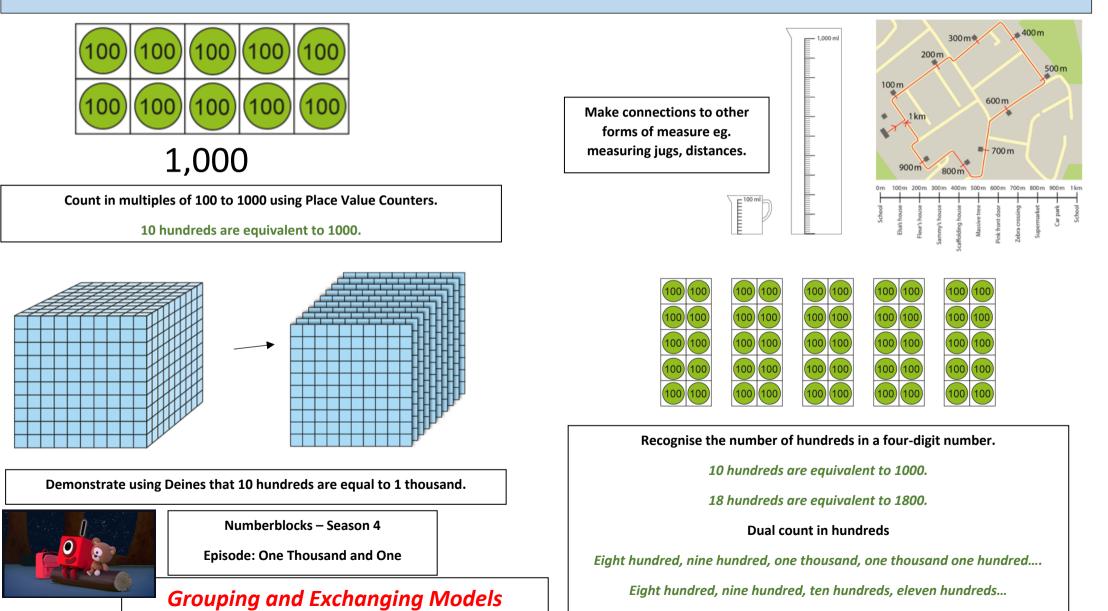


Year 4

Equivalence of 10 hundreds and 1 thousand (1)

Vocabulary:

Tens Hundreds Thousands Place Value Counters Pence Coin Ones Tens Frame Multiple Previous Next Gattegno Deines One-tenth the size Ten-times the size Millilitres Centimetres Metres Litres Kilograms Grams



Year 4

Equivalence of 10 hundreds and 1 thousand (2)

Ones Tens Hundreds Thousands Place Value Counters Pence Coin Tens Next Frame Multiple Previous Gattegno Deines One-tenth the size Ten-times the size Centimetres Millilitres Metres Litres Grams Kilograms

100	200	300	400	500	600	700	800	900	1,000
1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000
2,100	2,200	2,300	2,400	2,500	2,600	2,700	2,800	2,900	3,000
3,100	3,200	3,300	3,400	3,500	3,600	3,700	3,800	3,900	4,000
4,100	4,200	4,300	4,400	4,500	4,600	4,700	4,800	4,900	5,000
5,100	5,200	5,300	5,400	5,500	5,600	5,700	5,800	5,900	6,000
6,100	6,200	6,300	6,400	6,500	6,600	6,700	6,800	6,900	7,000
7,100	7,200	7,300	7,400	7,500	7,600	7,700	7,800	7,900	8,000
8,100	8,200	8,300	8,400	8,500	8,600	8,700	8,800	8,900	9,000
9,100	9,200	9,300	9,400	9,500	9,600	9,700	9,800	9,900	10,000

Eight hundred, nine hundred, one thousand, one thousand one hundred....

Eight hundred, nine hundred, ten hundreds, eleven hundreds...

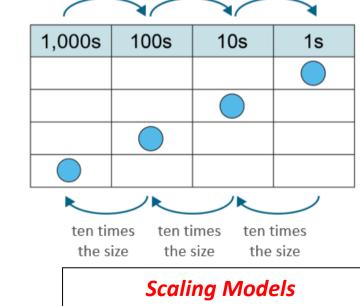
1,000	2,000	3,000	4,000	5,000	6,000	7,000	8,000	9,000
100	200	300	400	500	600	700	800	900
10	20	30	40	50	60	70	80	90
1	2	3	4	5	6	7	8	9

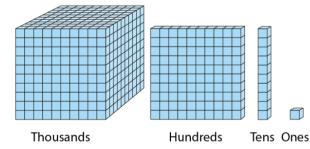
Vocabulary:

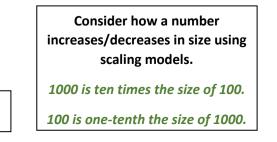
Tap the Gattegno chart in multiples of 100.

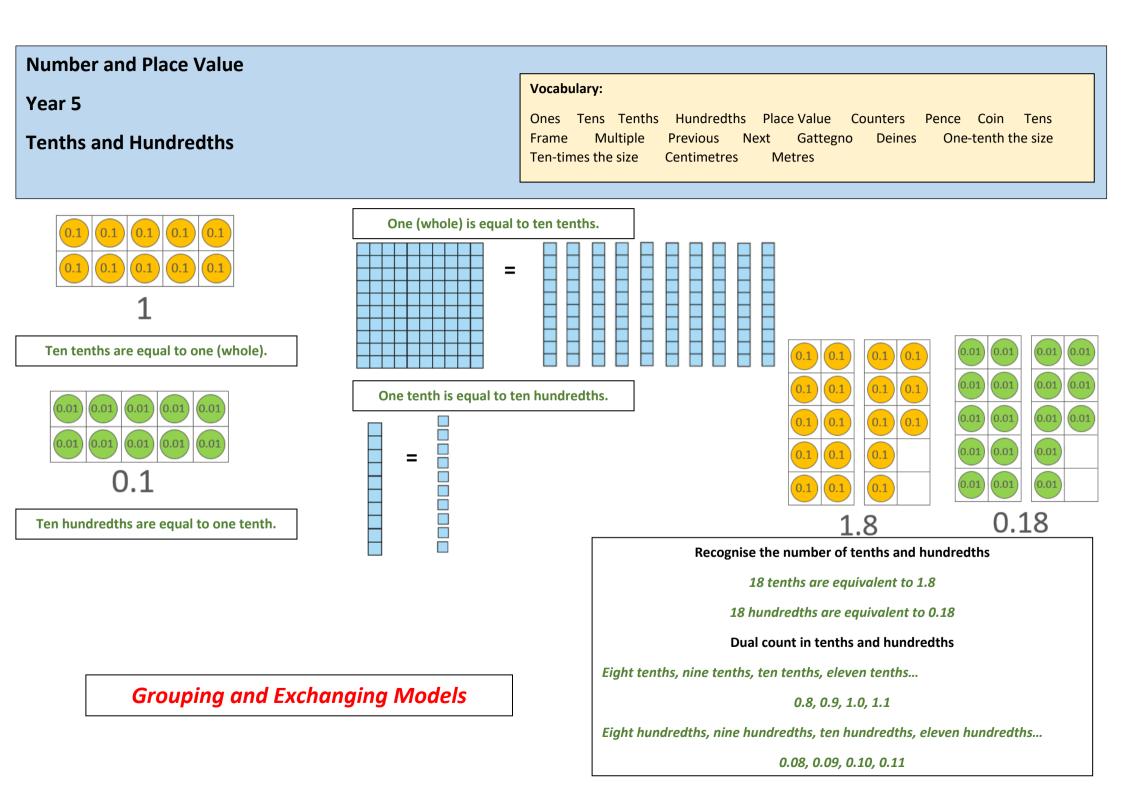
Create multiples of ten using the Gattegno chart.

one-tenth one-tenth one-tenth of the size of the size of the size









Year 5

Tenths and Hundredths (2)

Vocabulary:

Ones	Tens	Tenths	Hundredth	ns Pl	ace Value	Counters	Pence	Coin	Tens
Frame	Mu	ultiple	Previous	Next	Gattegr	o Deines	One	-tenth t	he size
Ten-tin	nes the	size	Centimetres	5 N	/letres				

0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1
1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2
2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3
3.1	3.2	3.3	3.4	3.5	3.6	3.7	3.8	3.9	4
4.1	4.2	4.3	4.4	4.5	4.6	4.7	4.8	4.9	5
5.1	5.2	5.3	5.4	5.5	5.6	5.7	5.8	5.9	6
6.1	6.2	6.3	6.4	6.5	6.6	6.7	6.8	6.9	7
7.1	7.2	7.3	7.4	7.5	7.6	7.7	7.8	7.9	8
8.1	8.2	8.3	8.4	8.5	8.6	8.7	8.8	8.9	9
9.1	9.2	9.3	9.4	9.5	9.6	9.7	9.8	9.9	10

0.01	0.02	0.03	0.04	0.05	0.06	0.07	0.08	0.09	0.1
0.11	0.12	0.13	0.14	0.15	0.16	0.17	0.18	0.19	0.2
0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.3
0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.4
0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.5
0.51	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.6
0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69	0.7
0.61	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79	0.8
0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89	0.9
0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99	1

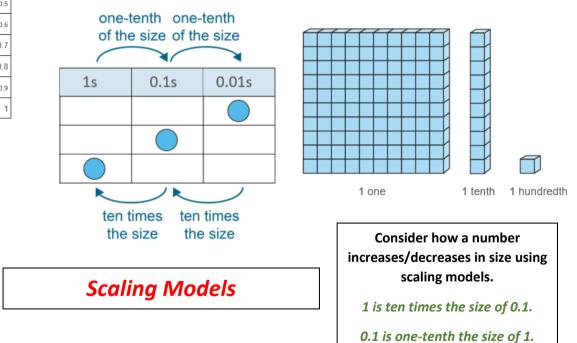
Count in multiples of tenths and hundredths.

Eight tenths, nine tenths, ten tenths, eleven tenths...

0.8, 0.9, 1.0, 1.1

Eight hundredths, nine hundredths, ten hundredths, eleven hundredths...

0.08, 0.09, 0.10, 0.11



Year 6

Powers of 10 (1)

Vocabulary:

Ones Tens Hundreds Thousands Ten-thousands Hundred-thousands Millions Ten-Millions Tenths Hundredths Represents Digit Place Value Counters Gattegno Tens Frame Equivalent Equation Multiply Divide

Ten/hundred times the size

One-tenth/hundredth times the size

М	Millions			Thousands			Ones		-ths	
100s	10s	1s	100	10s	1s	100	10s	1s		
			s			s				
								0	0	1
								0	1	
								1		
							1	0		
						1	0	0		
					1	0	0	0		
				1	0	0	0	0		
			1	0	0	0	0	0		
		1	0	0	0	0	0	0		
	1	0	0	0	0	0	0	0		

1,000,000	2,000,000	3,000,000	4,000,000	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
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

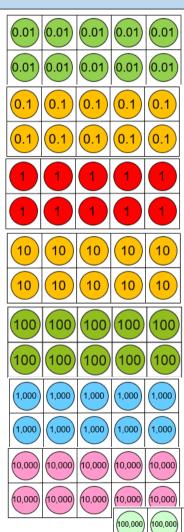
- 0 . 0 1 one hundredth
- 0.1 one tenth 1 one 1 0 ten 1 0 0 one hundred 1,000 one thousand 10,000 ten thousand 100,000 one hundred thousand one million 1,000,000 10,000,000 ten million

Recognise that the 1 becomes ten times the size as it moves from right to left in a place value chart.

Recognise that 1 becomes one-tenth the size as it moves from left to right in a place value chart.

Recognise that the 1 becomes 10 times the size as it moves up in a Gattegno chart.

Recognise that 1 becomes one-tenth the size as it moves down in a Gattegno chart.



Recognise that:

10 hundredths are equivalent to 1 tenth.

10 tenths are equivalent to 1 one.

10 ones are equivalent to 1 ten.

10 tens are equivalent to 1 hundred.

10 hundreds are equivalent to 1 thousand.

10 thousands are equivalent to 1 ten thousand.

10 ten thousands are equivalent to 1 hundred thousand.

10 hundred thousands are equivalent to 1 million.

10 millions are equivalent to 1 ten million.

Grouping and Exchanging Models

