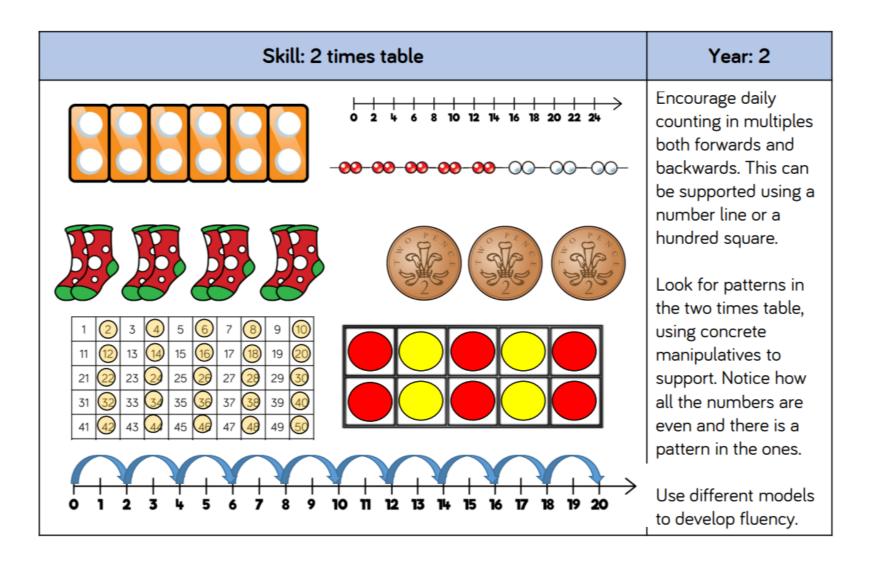
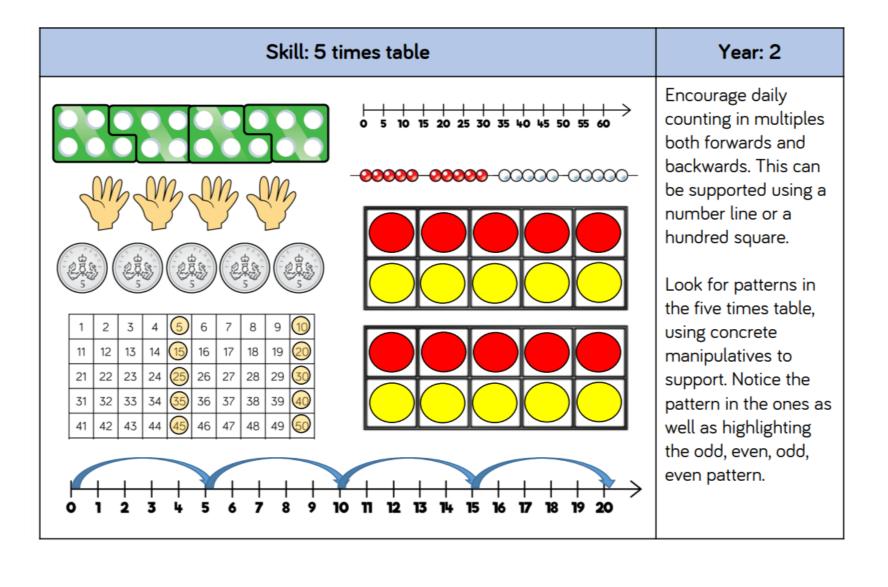
Multiplication

Skill	Year	Representation	ons and models
Recall and use	2	Bar model	Ten frames
multiplication and		Number shapes	Bead strings
division facts for the		Counters	Number lines
2-times table		Money	Everyday objects
Recall and use	2	Bar model	Ten frames
multiplication and		Number shapes	Bead strings
division facts for the		Counters	Number lines
5-times table		Money	Everyday objects
Recall and use	2	Hundred square	Ten frames
multiplication and		Number shapes	Bead strings
division facts for the		Counters	Number lines
10-times table		Money	Base 10

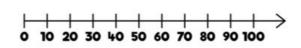
Skill	Year	Representation	ns and models
Recall and use multiplication and division facts for the 3-times table	3	Hundred square Number shapes Counters	Bead strings Number lines Everyday objects
Recall and use multiplication and division facts for the 4-times table	3	Hundred square Number shapes Counters	Bead strings Number lines Everyday objects
Recall and use multiplication and division facts for the 8-times table	3	Hundred square Number shapes	Bead strings Number tracks Everyday objects
Recall and use multiplication and division facts for the 6-times table	4	Hundred square Number shapes	Bead strings Number tracks Everyday objects

Skill	Year	Representations and models	
Recall and use multiplication and division facts for the 7-times table	4	Hundred square Number shapes	Bead strings Number lines
Recall and use multiplication and division facts for the 9-times table	4	Hundred square Number shapes	Bead strings Number lines
Recall and use multiplication and division facts for the 11-times table	4	Hundred square Base 10	Place value counters Number lines
Recall and use multiplication and division facts for the 12-times table	4	Hundred square Base 10	Place value counters Number lines





Skill: 10 times table 0 10 20 1 2 11 12 11 12 21 22 31 32



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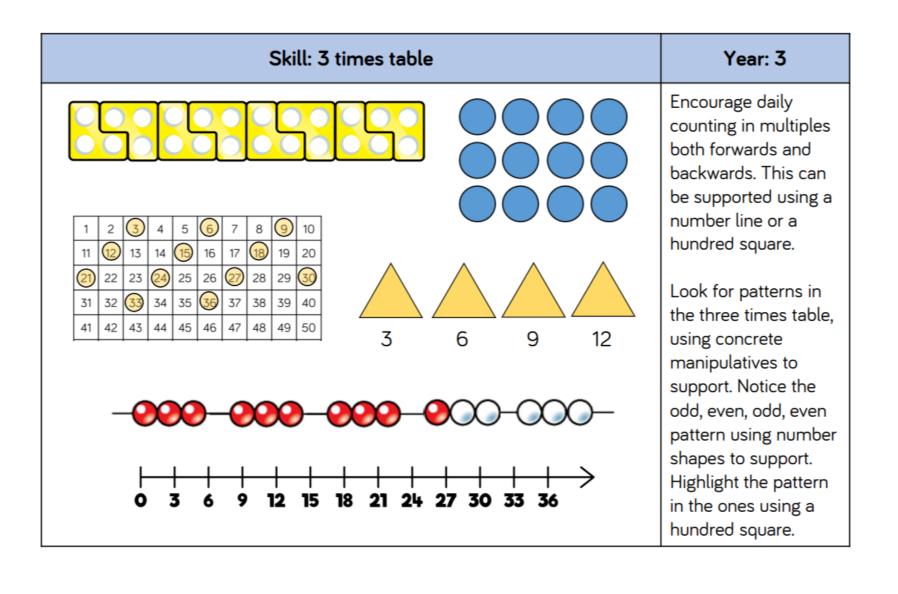


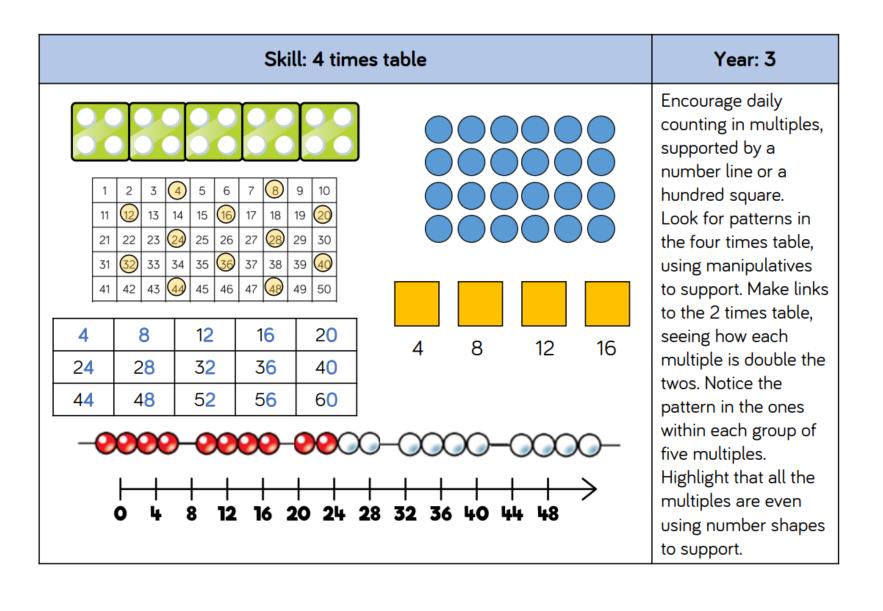
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	0
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	0

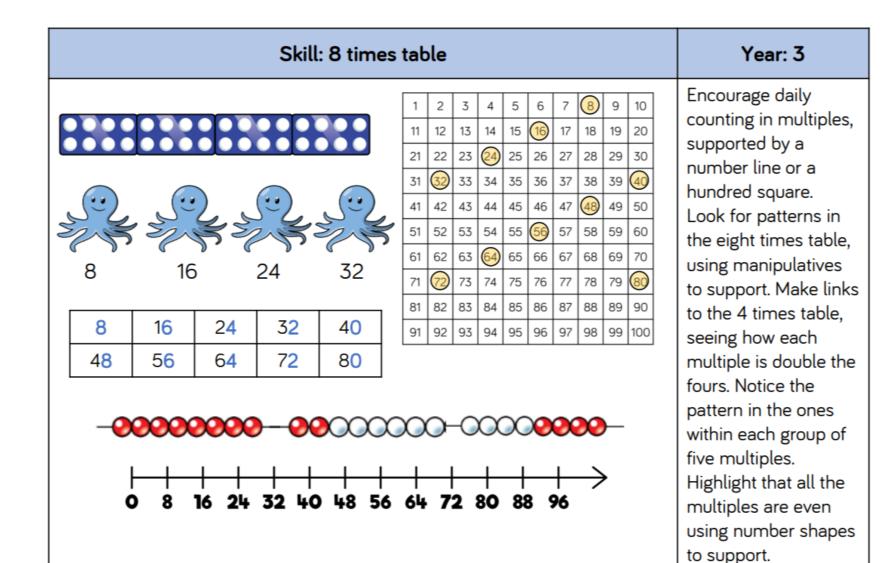
Encourage daily counting in multiples both forwards and backwards. This can be supported using a number line or a hundred square.

Year: 2

Look for patterns in the ten times table, using concrete manipulatives to support. Notice the pattern in the digitsthe ones are always O, and the tens increase by 1 ten each time.









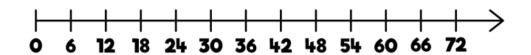




6	12	18	24	30
36	42	48	54	60
66	72	78	84	90

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	<u>36</u>	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





Year: 4

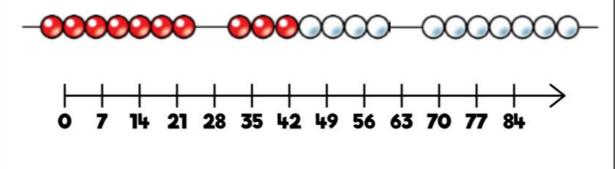
Encourage daily counting in multiples, supported by a number line or a hundred square. Look for patterns in the six times table, using manipulatives to support. Make links to the 3 times table, seeing how each multiple is double the threes. Notice the pattern in the ones within each group of five multiples. Highlight that all the multiples are even using number shapes to support.

Skill: 7 times table



7	14	21	28	35
42	49	56	63	70

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	<u>56</u>	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	(7)	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	99	99	100



Year: 4

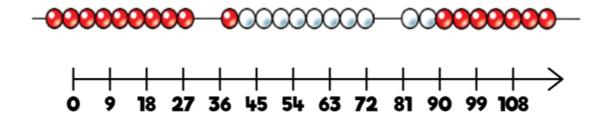
Encourage daily counting in multiples both forwards and backwards, supported by a number line or a hundred square. The seven times table can be trickier to learn due to the lack of obvious pattern in the numbers, however they already know several facts due to commutativity. Children can still see the odd, even pattern in the multiples using number shapes to support.

Skill: 9 times table



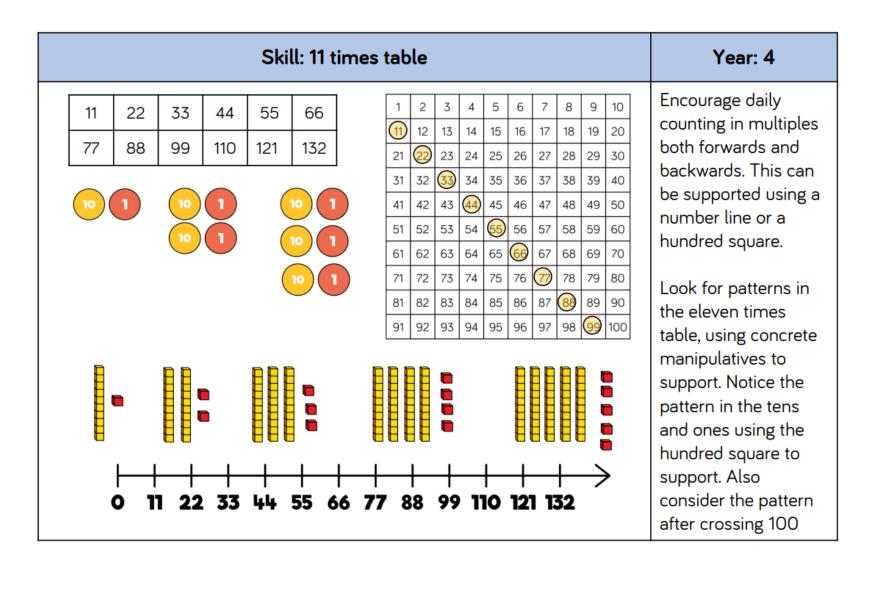
9	18	27	36	45
5 4	63	72	81	90

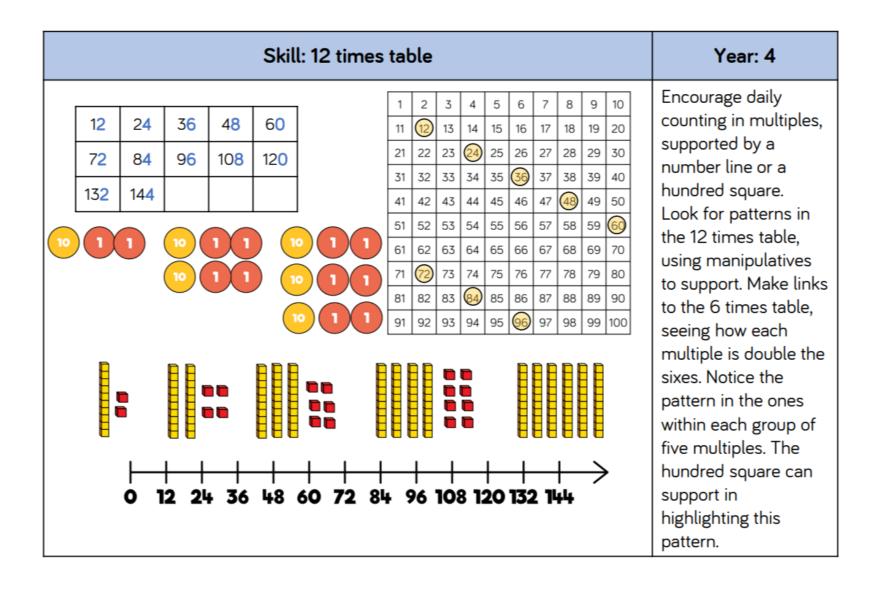
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	9	100



Year: 4

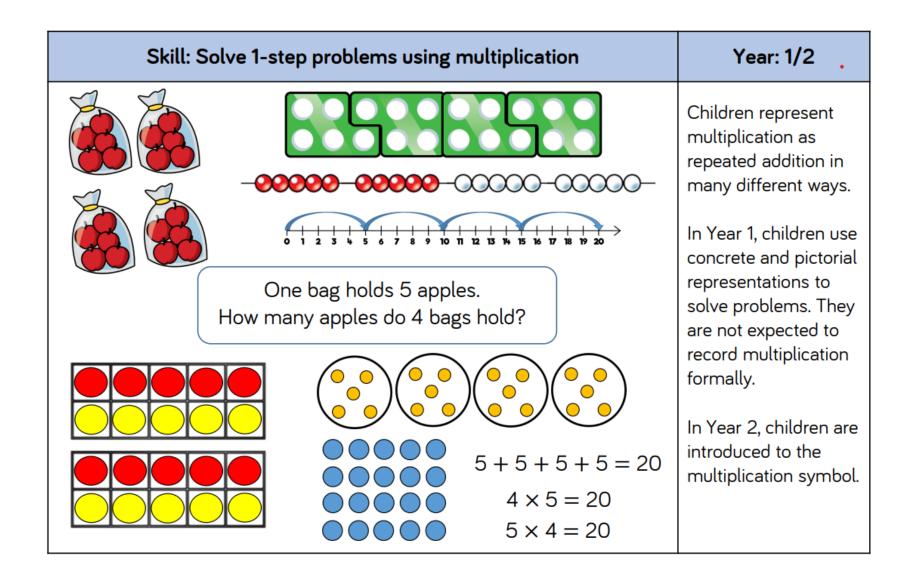
Encourage daily counting in multiples both forwards and backwards. This can be supported using a number line or a hundred square. Look for patterns in the nine times table, using concrete manipulatives to support. Notice the pattern in the tens and ones using the hundred square to support as well as noting the odd, even pattern within the multiples.

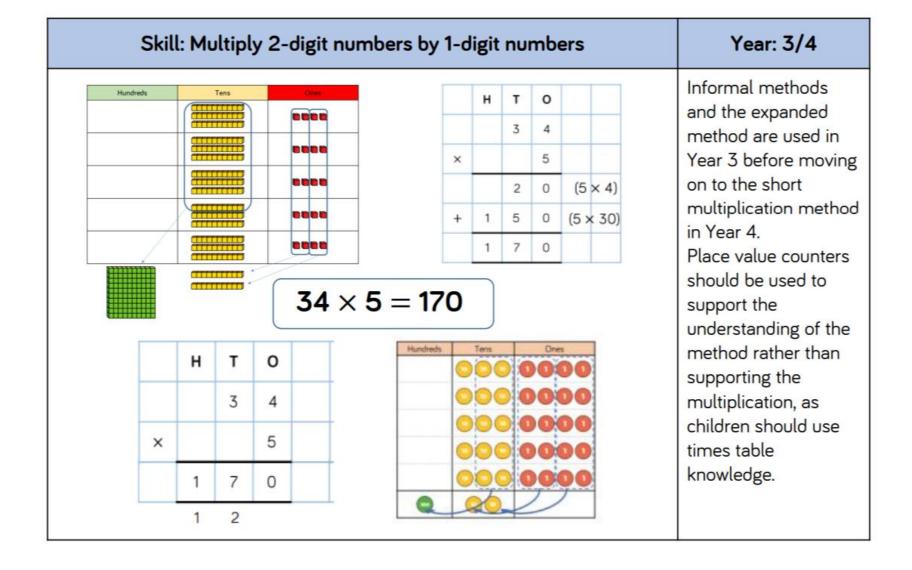


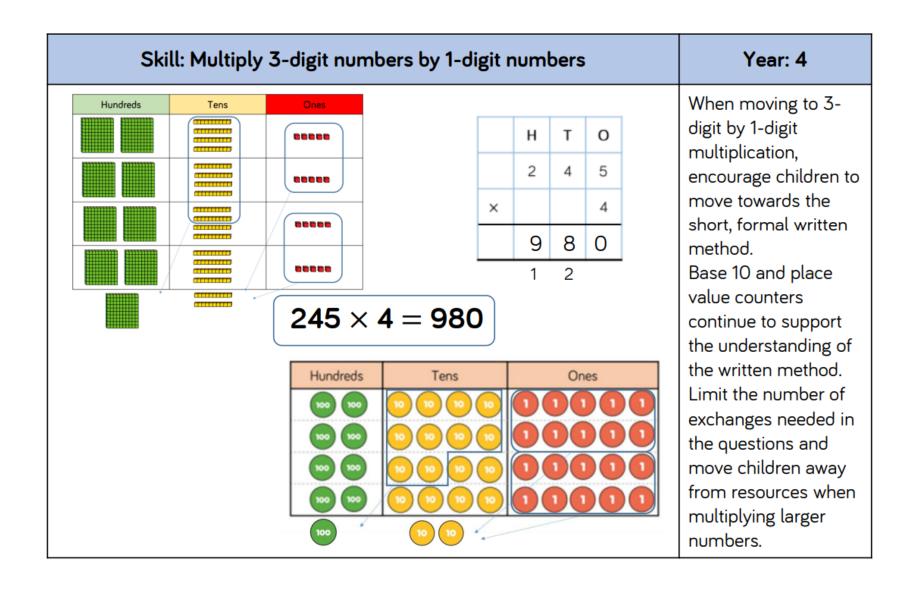


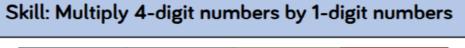
Skill	Year	Representation	ons and models
Solve one-step problems with multiplication	1/2	Bar model Number shapes Counters	Ten frames Bead strings Number lines
Multiply 2-digit by 1- digit numbers	3/4	Place value counters Base 10	Expanded written method Short written method
Multiply 3-digit by 1- digit numbers	4	Place value counters Base 10	Short written method
Multiply 4-digit by 1- digit numbers	5	Place value counters	Short written method

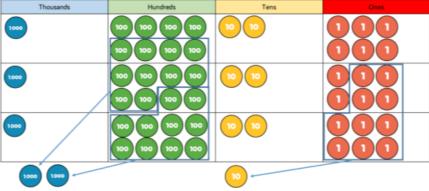
Skill	Year	Representation	ns and models
Multiply 2-digit by 2- digit numbers	5	Place value counters Base 10	Short written method Grid method
Multiply 2-digit by 3- digit numbers	5	Place value counters	Short written method Grid method
Multiply 2-digit by 4- digit numbers	5/6	Formal written method	









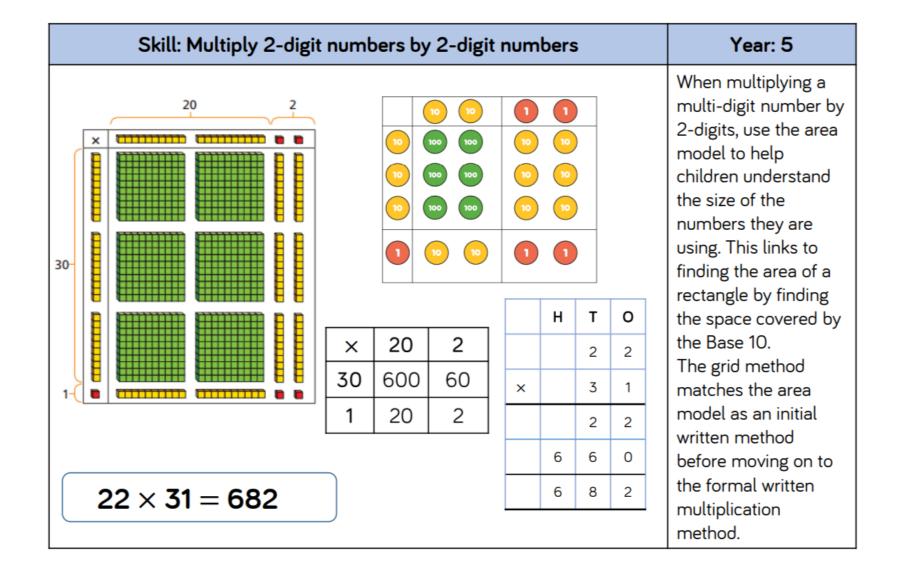


$$1,826 \times 3 = 5,478$$

	Th	Н	Т	0
	1	8	2	6
×				3
	5	4	7	8
	2		1	

Year: 5

When multiplying 4digit numbers, place value counters are the best manipulative to use to support children in their understanding of the formal written method. If children are multiplying larger numbers and struggling with their times tables, encourage the use of multiplication grids so children can focus on the use of the written method.



Skill: Multiply 3-digit numbers by 2-digit numbers

	100 100	10 10 10	
10	1000	100 100 100	
10	1000	100 100 100	
10	1000	100 100 100	10 10 10
	100 100	10 10 10	
	100 100	10 10 10	

Th	Н	T	0
	2	3	4
×		3	2
	4	_	
	4	6	8
1 7	10	2	0

×	200	30	4
30	6,000	900	120
2	400	60	8

Children can continue
to use the area model
when multiplying 3digits by 2-digits.
Place value counters
become more
efficient to use but
Base 10 can be used
to highlight the size of
numbers.

Year: 5

Children should now move towards the formal written method, seeing the links with the grid method.

 $234 \times 32 = 7,488$

Skill: Multiply 4-digit numbers by 2-digit numbers						Year: 5/6	
7	ΓTh	Th	Н	Т	0		When multiplying 4-digits by 2-digits, children should be confident in using the formal written method. If they are still struggling with times tables, provide multiplication grids to support when they are focusing on the use of the method.
		2	7	3	9		
	×			2	8		
2	2	1 5	9	1 7	2		
1	5	4	7 1	8	0		
	7	6	6	9	2		
2,739 × 28 = 76,692						Consider where exchanged digits are placed and make sure this is consistent.	