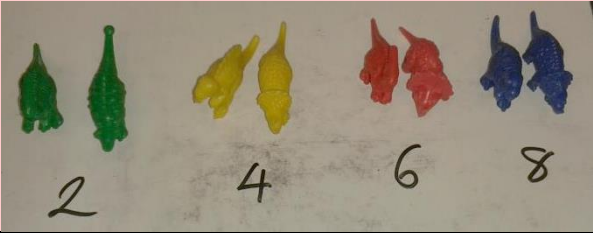
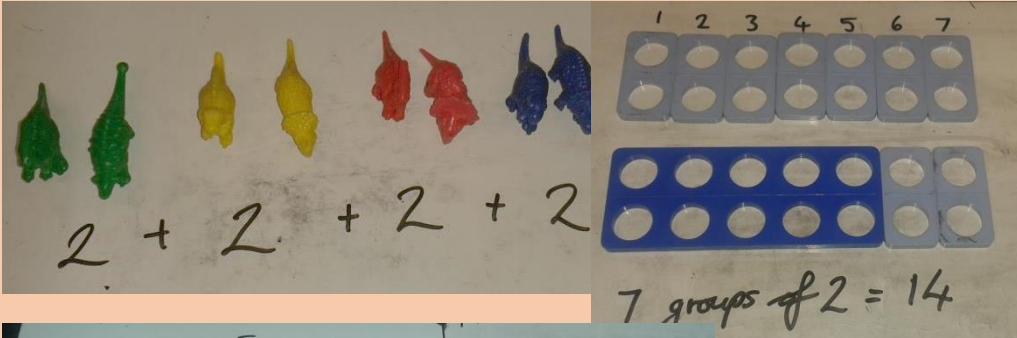
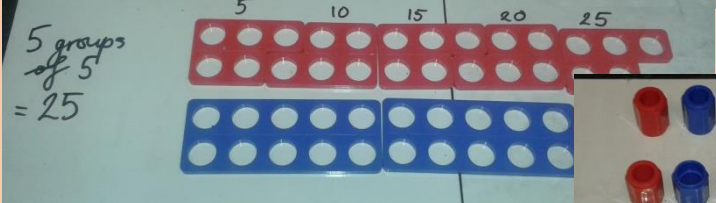
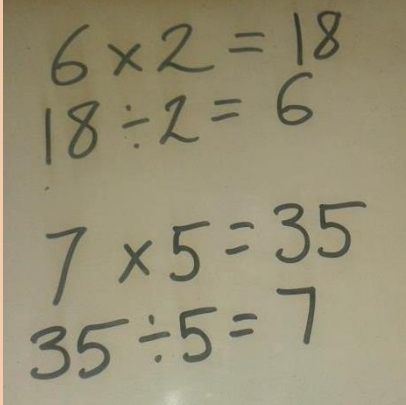
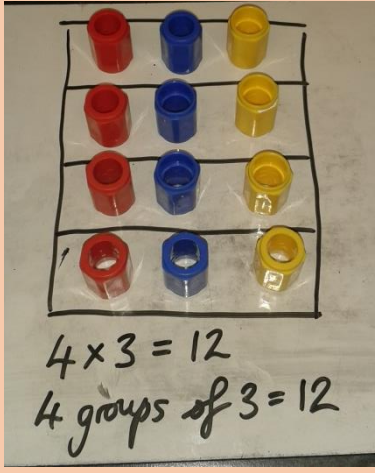
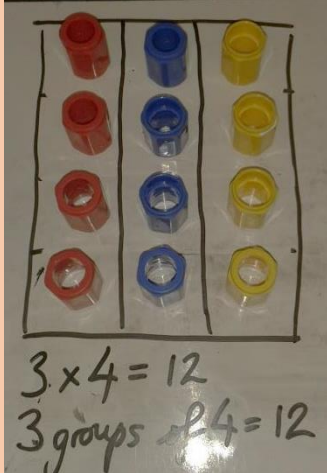


Multiplication

<p>Ruby Class</p>	<ul style="list-style-type: none"> • Solve problems involving doubling • Count in 2s and 5s 	
<p>Amber Class</p>	<ul style="list-style-type: none"> • Understand the multiplication is repeated addition • Understand that multiplication can be done in any order • solve one-step problems involving multiplication by calculating the answer using concrete objects, diagrams and arrays • Recall and use multiplication facts for the 2, 5 and 10 timestables. • Solve problems using multiplication strategies 	<div>  <p>$2 + 2 + 2 + 2 = 8$</p> <p>7 groups of 2 = 14</p> </div> <div>  <p>5 groups of 5 = 25</p> <p>4 groups of 3 = 12</p> </div> <div>  <p>$6 \times 2 = 18$ $18 \div 2 = 6$</p> <p>$7 \times 5 = 35$ $35 \div 5 = 7$</p> </div> <div>  <p>$4 \times 3 = 12$ 4 groups of 3 = 12</p> </div> <div>  <p>$3 \times 4 = 12$ 3 groups of 4 = 12</p> </div>

Multiplication

- Recall and use multiplication facts for the 3, 4 and 8 timestables
- Use multiplication facts and place-value to solve questions with larger numbers
- Recall and use multiplication facts for all timestables up to 12×12
- Pupils practise to become fluent in the formal written method of short multiplication
- Pupils to solve multiplication problems involving missing numbers
- Pupils solve two-step problems in contexts, choosing the appropriate operation, working with increasingly harder numbers.

$6 \times 257 =$
 $6 \times 7 = 42$
 $6 \times 50 = 300$
 $6 \times 200 = 1200$

T	H	T	U
1	2	0	0
		3	0
			4
			2
<hr/>			
1	5	4	2

	H	T	U
	2	5	7
x			6
<hr/>			
	1	5	4
			2
<hr/>			
	3	4	

$7 \times 6 = 42$
 $6 \times 7 = 42$
 $42 \div 6 = 7$
 $42 \div 7 = 6$

4 children go to the cinema. They each pay £15. How much do they spend altogether?

Whole unknown

?			
15	15	15	15

A computer costs 5 times as much as a television. The television costs £429. How much does the computer cost?

Cost of the computer

?				
£429				

Multiplication

Sapphire Class

- multiply numbers up to 4 digits by a one- or two-digit number using a formal written method, including long multiplication for two-digit numbers
- multiply and divide numbers mentally drawing upon known facts
- multiply whole numbers and those involving decimals by 10, 100 and 1000
- solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

		2	3	4
	x		5	6
<hr/>				
		2	4	(6 × 4)
		1	8	0 (6 × 30)
	1	2	0	0 (6 × 200)
<hr/>				
		2	0	0 (50 × 4)
	1	5	0	0 (50 × 30)
1	0	0	0	0 (50 × 200)
<hr/>				
1	3	1	0	4
	1	1		

Use knowledge of times-tables and place-value to multiply each part of each number. Then use column addition to calculate the answer.

When children are secure with this strategy, they can use a shorter version.

		2	3	4
	x		5	6
<hr/>				
	1	4 ₂	0 ₂	4
1	1 ₁	7 ₂	0	0
<hr/>				
1	3	1	0	4

Thousands	Hundreds	Tens	Units (ones)	tenths 1/10
		1	4	
	1	4	0	
1	4	0	0	

(× 10)
(× 100)

The cost to run a sports centre is £4375 a week, how much would it cost to run for 16 weeks?



£4375
a week