

MATHS AT RAVENSCOTE

ALL YEAR GROUPS



Our aim for this session

To help you to understand the methods we use to teach your child maths

To help you understand the vocabulary specific to maths across the year groups

To help you feel more confident with helping your child with maths at home



Our long term plan

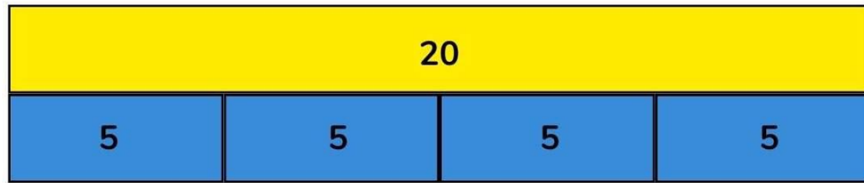
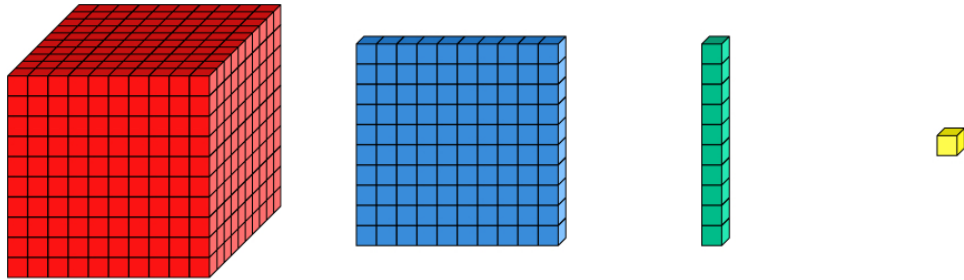
	Autumn 1					Autumn 2					Spring 1					Spring 2					Summer 1					Summer 2																													
Year 3	Number and place value - 3 weeks out of groups		Number and place value - 2 weeks (move to maths groups from now)			Addition and subtraction - 7 weeks (3 lessons a week)					Multiplication and division - 9 weeks (3 lessons a week)					Fractions - 7 weeks (3 lessons a week)					Statistics - 3 weeks (3 lessons a week)																																		
			Length - 5 weeks (2 lessons a week)			Perimeter - 1 week (2 lessons a week)		Mass - 2 weeks (2 lessons a week)			Volume - 2 weeks (2 lessons a week)		Time - 7 weeks (1 lesson a week)			Money - 5 weeks (2 lessons a week)			Geometry - 5 weeks (2 lessons a week)																																				
	30 min FAST lessons once a week										30 min FAST lessons once every 2 weeks										30 min FAST lessons twice a half term					30 min FAST lessons twice a half term																													
2s		2s		2s, 10s		5s		5s, 10s		10s		2s, 5s, 10s		2s, 5s		2s, 5s, 10s		2s, 5s, 10s		3s		3s		3s		3s, 5s, 10s		2s, 4s, 10s		2s, 4s, 10s		2s, 4s		4s, 10s		3s		8s		8s															
Year 4	Place value - 8 weeks (3 lessons a week)					Addition and subtraction - 5 weeks (3 lessons a week)					Multiplication - 10 weeks (3 lessons a week, one of these being a timestable lesson)					Fractions - 5 weeks (2 lessons a week)					Decimals - 3 weeks (2 lessons a week)																																		
	Statistics - 3 weeks (2 lessons a week)		Geometry - properties of shape 4 weeks (2 lessons a week)			Geometry - position and movement 2 weeks (2 lessons a week)		Time (2 lessons a week)			Money - 4 weeks (2 lessons each week)		Measurement - 6 weeks (2 lessons a week)			Timestable lesson once a week																																							
	30 min FAST lessons once every 2 weeks										30 min FAST lessons once a week / prep for multiplication check										prep for multiplication check					30 min FAST lessons twice a half term																													
2s		2s, 5s		2s, 5s		2s, 5s, 10s		2s, 5s, 10s		2s, 5s, 10s		3s		3s		2s, 5s, 10s, 3s		6s		3s, 6s		9s		3s, 6s, 9s		2s, 5s, 10s, 3s		2s, 5s, 10s, 3s, 6s		10s, 3s,		3s, 6s, 9s, 4s		3s, 6s, 9s, 4s, 8s		4s, 8s, 7s, 4s, 8s, 7s, 11s		4s, 8s, 7s, 11s, 12s		3s, 6s, 9s, 4s, 8s, 7s, 11s, 12s		4s, 8s, 7s, 11s, 12s		MOCK MT		MOCK MT		MOCK MT		MOCK MT		MOCK MT		MTC	
Year 5	Place value - 6 weeks (5 lessons a week)		Addition and subtractions - 4 weeks (5 lessons a week)			Multiplication and division - 9 weeks (3 lessons a week)					Fractions, decimals and percentages - 14 weeks (3 lessons each week)																																												
			Geometry - properties of shape - 6 weeks (2 lessons a week)			Geometry: position and direction - 5 weeks (2 lessons a week)					Measurement - 9 weeks (2 lessons a week)					Statistics - 4 weeks (2 lessons a week)		Fractions: decimals and percentages - 3 weeks (5 lessons a week)																																					
	30 min FAST lessons once every 2 weeks										30 min FAST lessons twice a half term					30 min FAST lessons twice a half term					30 min FAST lessons once a half term					30 min FAST lessons once a half term																													
2s, 5s, 10s		2s, 4s, 8s		2s, 4s, 5s, 8s, 10s		3s, 6s		3s, 6s, 9s		3s, 6s, 9s, 12s		11s, 12s		7s, 7s		7s, 8s		7s, 8s, 9s		Choose based on group		Choose based on group																																	
Year 6	Place Value - 4 weeks (3 lessons a week)		Four operations - 6 weeks (3 lessons a week)			Fractions, decimals and percentages - 8 weeks (3 lessons a week)					Real-life problem solving covering measurement, geometry, statistics, algebra and ratio and proportion					Fiver challenge - real life problem solving (money)																																							
	Measurement - 3 weeks (2 lessons a week)		Geometry: properties of shapes - 5 weeks (2 lessons a week)			Geometry: position and direction - 3 weeks (2 lessons a week)		Statistics - 2 weeks (2 lessons a week) graphs and averages		Algebra - 3 weeks (2 lessons a week)		Ratio and proportion - 2 weeks (2 lessons a week)																																											
	30 min FAST lessons Set 1 and 2 - once a term Set 3 and 4 - once every half term Set 5 and 6 - twice a half term and 1 overlearning a week should be a TT focus																																																						
set 5		2s, 5s, 10s		2s, 4s, 8s, 10s		3s, 6s		3s, 6s, 9s		11s		12s		7s		7s, 11s		Choose based on group		Choose based on group																																			

Topics are recovered throughout their journey at Ravenscote

We teach arithmetic alongside topic e.g addition and subtraction alongside measure to build in skills learnt

We teach 30 min FAST lessons - times table lessons

What we do here



$$5 + 5 + 5 + 5 = 20$$

$$5 \times 4 = 20$$

$$20 \div 4 = 5$$

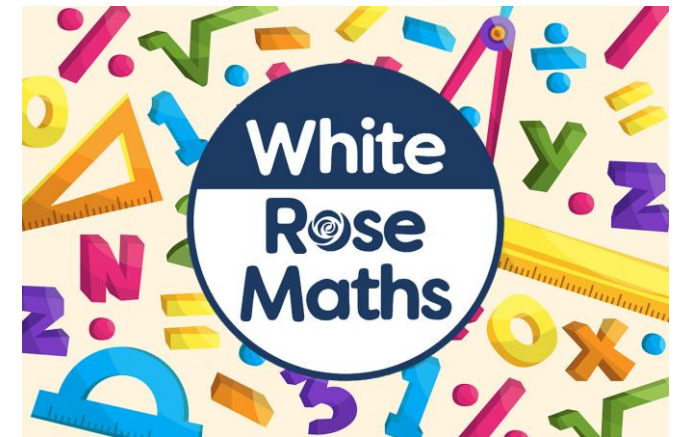
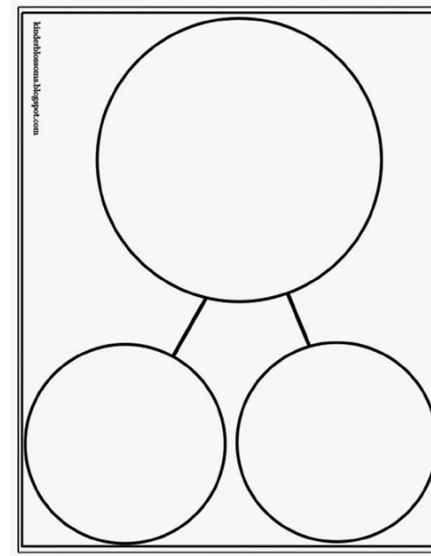
$$20 \div 5 = 4$$

DECIMAL PLACE VALUE CHART

THOUSANDS TO THOUSANDTHS

Thousands	Hundreds	Tens	Ones	Tenths	Hundredths	Thousandths

Copyright ©2020 Math, Kids and Chocs



Maths here

- We set by ability - we use assessment scores and teacher judgement to set the children so that they are working with others of the same ability – building confidence and working at the right pace for them
- We start with a times table focus, a flash back four or a fluent in 5 activity
- We encourage active learning – using manipulatives, children moving around the classroom, getting outdoors, working in small groups

Division

At Ravenscote we use two methods of division:

Long and short

You may hear the children hear children talk about short division as the bus stop method

Children are taught these two methods but can choose which one to use based on what they prefer



Long division

$$484 \div 11$$

$$\begin{array}{r} 44 \\ 11 \overline{) 484} \\ \underline{44} \\ 044 \\ \underline{44} \\ 00 \end{array}$$

Dad = Divide

Mum = Multiply

Sister = Subtract

Brother = Bring down



Long division

19	38	57	76	95	114	133	152	171	190
----	----	----	----	----	-----	-----	-----	-----	-----

$$228 \div 19 =$$



Short division

- Divide 3 digit by 1 digit number

$$\begin{array}{r} 3 \overline{) 699} \end{array}$$



Short division

- Divide 3 digit by 1 digit number with renaming

$$\begin{array}{r} 2 \overline{) 2472} \end{array}$$

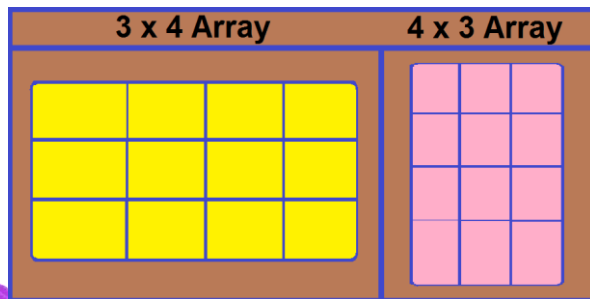


Multiplication

At Ravenscote we use two methods of multiplication:

Long and short

Children are taught these two methods but can choose which one to use based on what they prefer



Long multiplication

Multiply a 3 digit by a 1 digit

	4	8	3
X			5
<hr/>			



Long multiplication

Multiply a 3 digit by a 2 digit

	3	6	5	
X		5	2	
<hr/>				



Short multiplication

Multiply a 3 digit by a 1 digit

	4	8	3	
X			5	
<hr/>				
<hr/>				



Addition

Representations we use to help your child

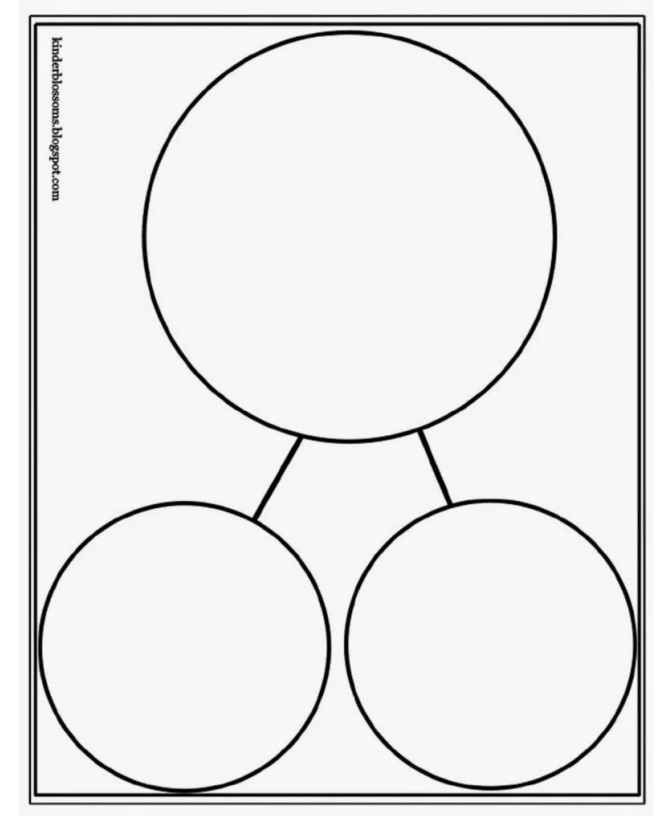


$$5 + 5 + 5 + 5 = 20$$

$$5 \times 4 = 20$$

$$20 \div 4 = 5$$

$$20 \div 5 = 4$$



Addition

Column addition – 3 digit plus 2 digit

	7	3	1	
+		4	6	
<hr/>				
<hr/>				

	7	4	6	
+		8	5	
<hr/>				
<hr/>				



Subtraction

Column addition – 3 digit subtract 2 digit

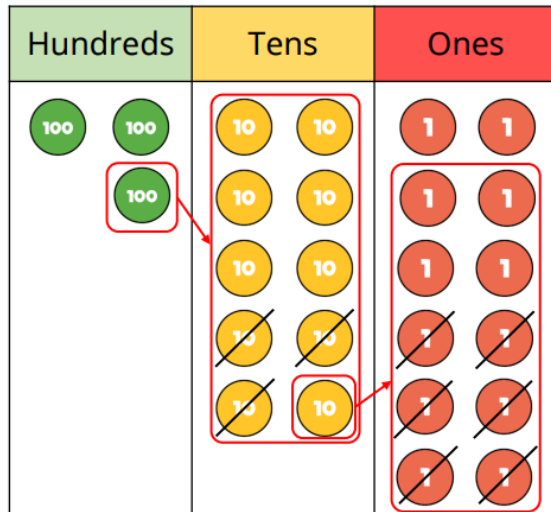
$$\begin{array}{r} 947 \\ - 34 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 841 \\ - 63 \\ \hline \\ \hline \end{array}$$



Reasoning – Year 3

The place value chart represents the calculation.



$$\begin{array}{r} 2 \quad 1 \quad 9 \quad 1 \\ \cancel{3} \quad \cancel{0} \quad 2 \\ - \quad \quad 3 \quad 6 \\ \hline 2 \quad 6 \quad 6 \end{array}$$

Reasoning – Year 4

Tommy has 8 boxes of cakes with 24 cakes in each box.

Eva has 4 boxes with 48 cakes in each box.

They have the same number of cakes.



Reasoning – Year 5

If you divide any whole number ending in a 2 or a 7 by 5, you will always get a remainder of 2

Reasoning – Year 6

Mo buys seven sandwiches costing £2.15 each and six drinks costing 95p each.

He will get change from a £20 note.



Thank you for coming

- Any questions?
- Times tables are paramount to progress in maths so this is always good place to start with practice.

