

Cupboard maths

Ask your child to look at the weights printed on jars, tins and packets in the food cupboard, e.g.
tinned tuna 185g
tinned tomatoes 400g
jam 454g

Choose six items. Ask your child to put them in order. Is the largest item the heaviest?

Bingo!

Choose a times table to practice. Make up a bingo card with numbers in the times table. E.g. 4x table

16	24	36	48
0	12	20	28

Choose a card from a pack of cards and multiply your card number by the times table. Jacks = 11, queens = 12 and kings = 0

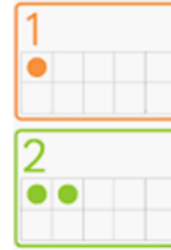
If the answer is on your paper then cross it out. The first person to cross out all their numbers wins the game and shouts BINGO...

Times Tables and number bonds. Please ensure your child has the opportunity to regularly use on line sites which support the quick recall of number facts:

<https://www.topmarks.co.uk/maths-games/hit-the-button> HIT the Button

<https://play.trockstars.com/auth> Times Tables Rockstars.

Year 3



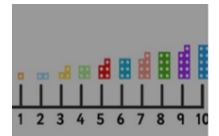
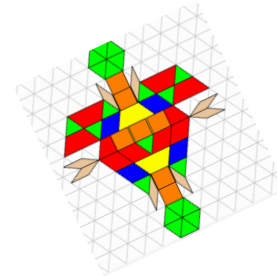
Achieving excellence through the pursuit

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

A Booklet



for Parents.



Help your child with mathematics.



Year 3 Targets.

By the end of Year 3, most children should be able to:

- ⇒ Count on from 0 in multiples of 4, 8, 50 and 100
- ⇒ Find 10 or 100 more or less than a given number
- ⇒ Recognise 100s, 10s and 1s in a 3 digit number
- ⇒ Read and write numbers to 1000 in words and numbers
- ⇒ Add and subtract numbers mentally up to 1000
- ⇒ Add and subtract numbers to 3 digits using efficient written methods
- ⇒ Estimate and use inverse operations
- ⇒ Recall and use 2,3,4,5,8,10 x tables
- ⇒ Solve problems involving division and multiplication
- ⇒ Count in tenths
- ⇒ Recognise , find and write fractions of objects and numbers

Fun activities to do at home

Can you tell the time?

Whenever possible, ask your child to tell you the time to the nearest minute. Use a clock with hands as well as a digital watch or clock.

Also ask:

- What time will it be one hour from now?
- What time was it one hour ago?

Time your child doing various tasks, e.g.

- getting ready for school;
- tidying a bedroom;
- saying the 3 times, 4 times or 8 times table...

Ask your child to guess in advance how long they think an activity will take. Can they beat their time when they repeat it?

Number games

Roll a dice twice. Make two-digit numbers, e.g. if you roll a 6 and 4, this could be 64 or 46. If you haven't got two dice, roll one dice twice. Ask your child to do one or more of the activities below.

- Count on or back from each number in tens.
- Add 19 to each number in their head. (A quick way is to add 20 then take away 1.)
- Subtract 9 from each number. (A quick way is to take away 10 then add back one.)
- Double each number.

Extend to 3 digit numbers.

Guess my number

Choose a car number you can see, e.g. 592.

- Add 10 to the number in your head. Say the answer aloud.
- Can your child guess which car you were looking at? If so she or he can have a turn

Questions you could ask your child as they are doing their Mathematics.

- What is the same or different about these numbers, sums, processes?
- How could you organise your learning?
- Can you show me an example?
- What are the connections between...?
- What do you notice?
- When is it not true?
- Can you find another example?
- Can you find an example that does not work?
- How can you be sure?
- What question can you ask next?
- Can you explain why that happens?
- Can you describe...?
- Can you do this mentally?

- ⇒ Add, subtract and compare fractions with the same denominator
- ⇒ Identify right angles
- ⇒ Identify vertical, horizontal, perpendicular and parallel lines
- ⇒ Measure, compare add and subtract lengths (m, cm, mm), mass (g, kg) and volume (l, ml)
- ⇒ Add and subtract money to give change
- ⇒ Tell the time using analogue, digital, 12 hour and 24 hour clocks
- ⇒ Use language of time e.g. noon, midnight, am, pm.
- ⇒ Know seconds in a minute, days in a week, each month, year and leap year.

These are examples of some of the mathematical targets your child is working towards this year.

Standard Methods for the four operations.

Please visit the school website (in the curriculum section) where you can find video demonstrations of each of the Standard Methods for addition, subtraction, multiplication and division, from Year 3 through to Year 6.

ADDITION

1) Add 3 digit numbers by partitioning.

e.g. $242 + 533 = 775$

$$\left. \begin{array}{l} 200 + 500 = 700 \\ 40 + 30 = 70 \\ 2 + 3 = 5 \end{array} \right\} = 775$$

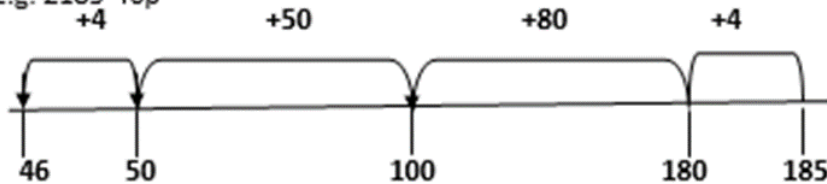
2) column addition

$$\begin{array}{r} 83 \\ + 42 \\ \hline 120 \\ 5 \\ \hline 125 \end{array} \qquad \begin{array}{r} 546 \\ + 259 \\ \hline 805 \\ 11 \\ \hline \end{array}$$

SUBTRACTION

1) Use of a number line to count on.

e.g. £185 - 46p



$$80p + 50p + 5p + 4p = 139p = £1.39$$

2) partitioning

e.g. $139 - 78 = 61$

$$139 - 70 = 69 \quad 69 - 8 = 61$$

3) column subtraction

$$\begin{array}{r} 49 \\ - 17 \\ \hline 32 \end{array} \qquad \begin{array}{r} 12 \\ 23.1 \\ - 15.7 \\ \hline 7.4 \end{array}$$

MULTIPLICATION

1) partitioning

e.g. $2 \times 49 = (2 \times 40) + (2 \times 9) = 80 + 18 = 98$

2) grid method

x	40	9
2	80	18

$$80 + 18 = 98$$

3) column multiplication methods

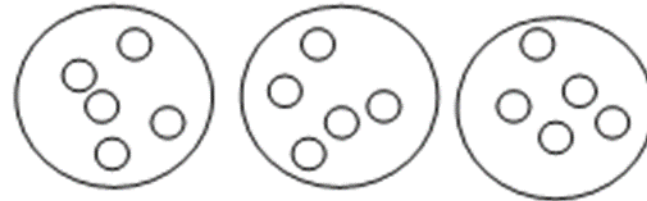
$$\begin{array}{r} 49 \\ \times 2 \\ \hline 18 \\ 80 \\ \hline 98 \end{array}$$

$$\begin{array}{r} 49 \\ \times 2 \\ \hline 98 \\ 1 \end{array}$$

DIVISION

E.G. $15 \div 3$

1) Share between 3 groups by counting out the number



2) Grouping. Put 15 cubes into groups of 3. How many groups have you got?

3) Repeated subtraction using objects and cubes.

$15 \div 3 = 5$ take away 1 lot of 3, 2nd lot of 3, 3rd lot of 3 and so on. How many lots of 3 have been taken away?

4) Using fingers to count on in 3s to get to 15. How many 3s are in 15? E.g. 3, 6, 9, 12, 15 = 5 fingers