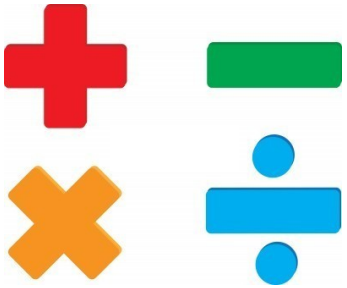
Year Four

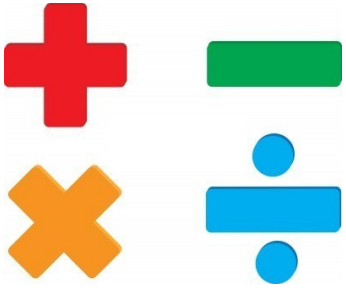
Ways in which you can help your child at home:

- Addition
- Subtraction
- Multiplication
- Division
- Problem solving



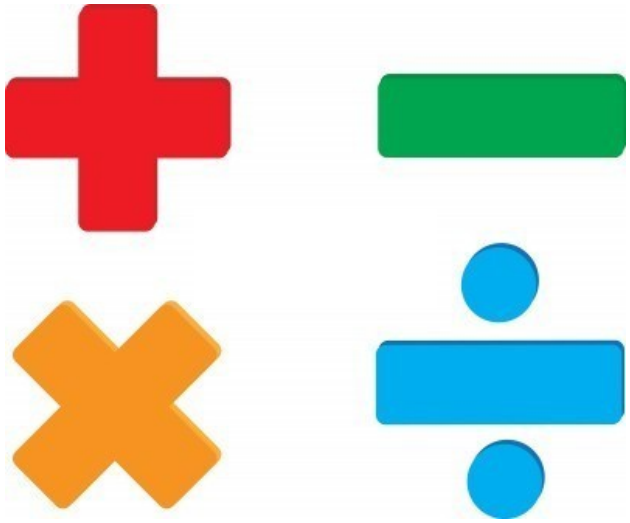
We hope that this leaflet has been helpful.

Please do not hesitate to contact the class teacher if you would like further assistance in supporting your child's learning.



Maths Guidance for Parents

Year Four



Bushey Heath Primary School

Addition and subtraction:

Mental calculations: Children need to understand what each of the digits represents so that they can partition numbers to assist in mental calculations.

t u + t u

3 6 + 5 2

30 + 50 = 80 6 + 2 = 8

80 + 8 = 88

Column methods: When using standard vertical addition and subtraction numbers need to be accurately placed in columns. We then calculate from right to left (units, then tens, then hundreds etc) **carrying** or **borrowing** amounts from the next column when necessary.

Th	h	t	u
4	6	7	3
+ 2	5	1	8
7	1	9	1
1		1	

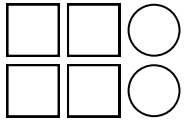
Th	h	t	u
		4	1
2	4	~~5~~	3
- 1	2	4	4
1	2	0	9

Sometimes an amount may need to be borrowed from a column further across in subtraction, this has be borrowed from each column in turn.

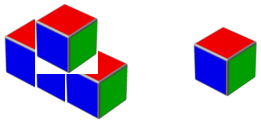
Problem Solving: Children are given the opportunity to use number skills taught to explore and solve mathematical problems from five categories.

Finding all possibilities—Some tripods and bipods flew past Mars. There are at least 2 of each. Tripods have 3 legs, bipods have 2 legs. If there are 23 legs altogether how many tripods were there and how many bipods?

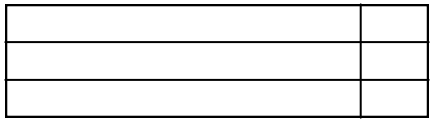
Logic—What colour is each shape? Red is not next to grey, blue is not between white and grey, green is not a square and blue is on the right of pink.



Finding rules and describing patterns - 1 block is needed to make a staircase with 1 step up-and-down. 4 blocks are needed to make a 2 steps up-and-down. How many blocks would be needed for a 5 steps up-and-down?



Diagrammatic puzzles— How many rectangles can you count?



Word problems—There a six apples in a bag and 26 bags. How many apples in total?

Multiplication and division:

Children are expected to know all the times table facts up to 10 x 10.

They also need to be able to use known facts to help them calculate further facts, for example:

2 x 15 = 30 so 20 x 15 = 300

Column methods: Children are shown how to layout and use standard column method of multiplication and 'bus stop' method of division as they did in year 3.

$$3\overline{)7\ 4} = 24\ r\ 2$$

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These do, however, still rely on them knowing the tables facts to 10 x 10 to be able to confidently approach these calculations.

I hope this begins to highlight just how integral times tables facts are to the wider range of mathematical skills and knowledge the children need to feel confident and begin to tackle other mathematical problems and challenges.