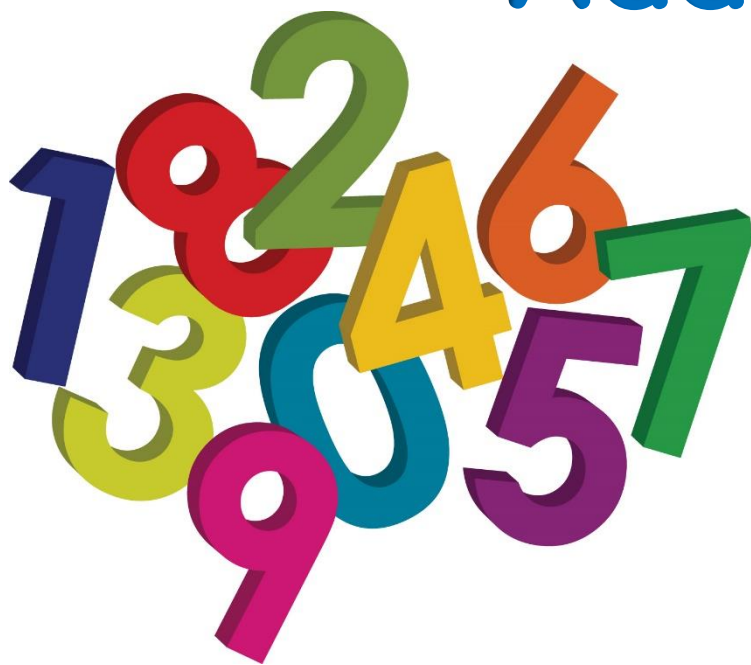




Maths

Booklet

Addition



Beeches

The aim of this booklet is to outline what is expected by the end of the year. We have included some of the strategies that will be used in class so that support is given in the same way.

We have included some activities that can be done at home to help them develop fluency and understanding.

Addition Expected targets.

- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- perform mental calculations, including with mixed operations and large numbers

By the time children reach year five, they should be familiar with a column method for addition. However, they should remain flexible in their approach as not every calculation will be best solved with a formal written method. Children should look carefully at the numbers involved and make a decision.

- If all of the digits are being added to zeros, is it necessary to use column addition?

For example $450803 + 5060$

- If one number is very close to a multiple of 10, 100 or 1000, do you need to use a column method?

For example $54,867 + 32,000$

- If there is a pattern of digits that make the calculation easy, don't use a column method:

For example $3434 + 303$

When a column method is required, here is a step by step guide to the formal method we expect children to use:

$$60,352 + 8,793 =$$

$$\begin{array}{r} 60,352 \\ + 8,793 \\ \hline \end{array}$$

Two ones add three ones is five ones

$$\begin{array}{r} 60,352 \\ + 8,793 \\ \hline 45 \end{array}$$

Five tens add nine tens is one hundred and forty tens.

$$\begin{array}{r} 60,352 \\ + 8,793 \\ \hline 145 \end{array}$$

Three hundreds add seven hundreds add one hundred is one thousand, one hundred

$$\begin{array}{r} 60,352 \\ + 8,793 \\ \hline 9145 \end{array}$$

Eight thousands add one thousand is nine thousand

$$\begin{array}{r} 60,352 \\ + 8,793 \\ \hline 69,145 \end{array}$$

Sixty thousands add zero is sixty thousand.

Quick mental addition is still very important. Children should be able to solve a problem like $2525 + 808$ mentally, seeing this as $2500 + 800$ and $25 + 8$.

Practising mental addition at home could be:

- adding up the cost of a shopping trip and checking at the till
- adding up the number of pages on three different books
- adding the total weight of the ingredients in a meal or a cake.
- Simply rolling some dice and quickly adding the scores together.