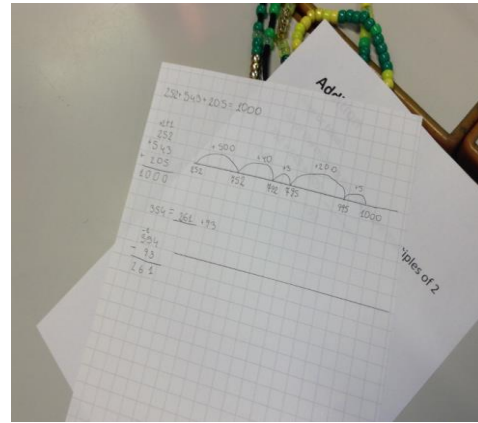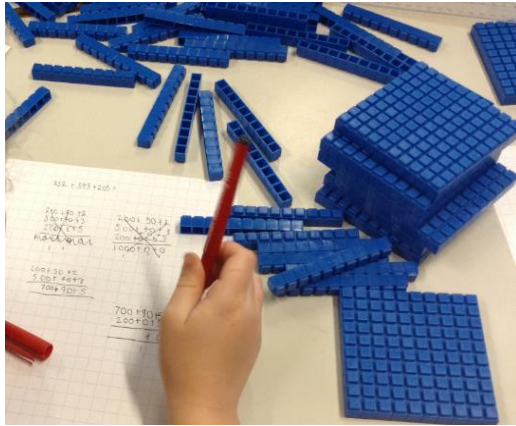# St. Mary and St. Peter

Year Five Calculation

Addition

Words we use...

Addition, add, more, and, make, sum, total altogether, double, near double , one more, two more ... ten more ... one ... hundred more, how many more to make ...? how many more is ... than ...?

## In Year Five these are some of the ways we explore addition

How Year Five learn Addition

In Year 5 children add mentally increasingly large numbers. They work using numbers with more than 4 digits and decimals. They continue the use of structured equipment such as Denes blocks and numberline methods. Alongside this they learn how to use formal written methods (column method), using the sound knowledge of place value that they have built up through the school. They make decisions about the best method for a particular calculation. Rounding is used to check answers to calculations and determine, in the context of a problem, levels of accuracy.

They explore and further practice methods using them to solve addition multistep problems in contexts deciding which operations and methods to use and why.

In Year Five we use these jottings and methods to solve our additions on paper
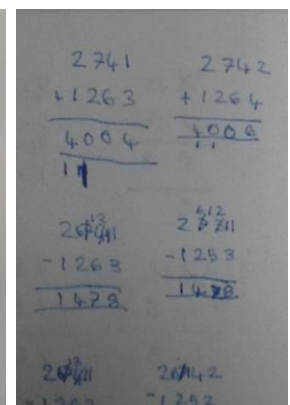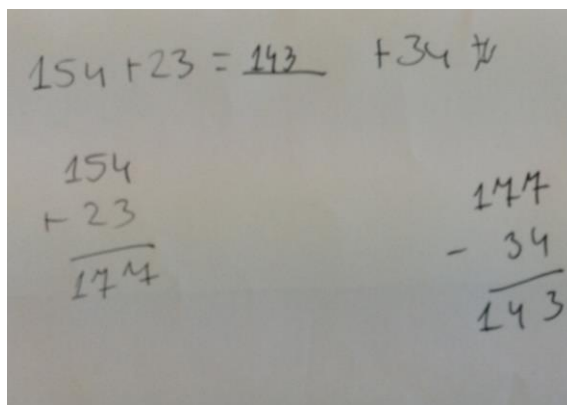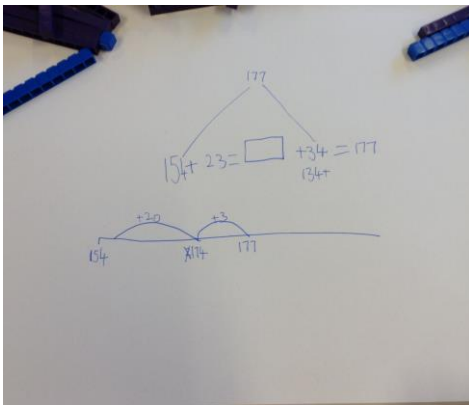
Fluency – this is about building up an understanding of how numbers work. In Year 5 children are taught to think about which method is most efficient way to solve a problem. For example:

Adam earns £37,566 pounds a year. His wife, Sarah, earns £22,819 a year. How much do they earn altogether? Adam estimates that together they earn £50,000. How close is his estimate to the actual amount?

240		

240 is half of the yellow bar. Can you work out what all the bars are worth?

Problem Solving - importantly this is about working out ways to explore a problem. Children learn to work in a logical way and try out different ways to come to solutions. It is essential for problem solving that children are resilient and keep going even if they are finding the problem tricky. Here are some examples of addition problems for Year 5.

True or false.

1638+ 2517 = 2637 +1518

Explain how you know using a written method.

My answer is 5398,

What's the question?

Create 3 addition calculations.

Did you use a strategy?

Explain it.

NEVER ALWAYS SOMETIMES

Adding to a number always gives a higher value answer.

Reasoning – is about explaining thinking. Children are asked questions such as: "How do you know?", "Can you convince me this is true?", "What do you notice about these numbers?" and "Can you give another example?"

True or False? Are these number sentences true or false?

8.7 + 0.4 = 8.03

4.1 + 0.9 = 5.2 Give your reasons.

When you add up four even numbers, the answer is divisible by four..

Do you agree? Explain why.

I measure my room for a new carpet. It has a width of 2.3m and a length of 5.1m. I round my measurements to the nearest metre.

Will she have the right amount of carpet?

Explain your reasoning.