



Year 4

Parent and Carer

Maths Strategy Booklet

Calculating

The maths learning your child is completing at school may look very different to the 'sums and calculations' you may remember. This is because children are encouraged to work mentally where possible and even use working out using an appropriate written method. This booklet will show you some of the strategies used in year 5 so you will feel more confident in supporting your child at home.

Addition - Column Method

Learning Objectives covered in y4:

4.1.11 Add numbers with up to 4 digits using the formal written methods of columnar addition and subtraction, where appropriate.

Vocabulary used:

Calculate, written method, mentally, exchange, place value, operation, inverse, answer, sum, total, add, altogether, strategy, method

Examples:

$$5,369 + 9,362$$

$$\begin{array}{r} 5369 \\ 9362 + \\ \hline 14731 \end{array}$$

Ensure all the numbers are lined up in the correct columns to match their value.

Always start adding with the ones column - then move from the right to the left by adding each column.

Where the answer is worth more than one digit, the tens digit needs to be carried into the next column and added to the total in that column.

$$\begin{array}{r} 2473 + 9627 \\ 2473 \\ + 9627 \\ \hline 12100 \end{array}$$

Subtraction - Column Method

Learning Objectives covered in y4:

4.1.12 subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction, where appropriate.

Vocabulary used:

Calculate, written method, mentally, exchange, place value, operation, inverse, answer, difference, minus, less than, take away, subtract, strategy, method

Examples:

$$\begin{array}{r} 7,362 - 4,273 \\ 7362 \\ 4273 - \\ \hline 3089 \end{array}$$

Ensure all the numbers are lined up in the correct columns to match their value.

Always start subtracting with the ones column - then move from the right to the left by subtracting each column.

Multiplication - short multiplication

Learning Objectives covered in y4:

4.1.19 Multiply 2-digit and 3-digit numbers by a 1-digit number using formal written layout.

Vocabulary used:

Calculate, written method, mentally, exchange, place value, operation, inverse, answer, multiply by, product, times, groups of, lots of, strategy, method

Examples:

Short Multiplication (multiplying by 1 digit)

$$932 \times 6$$

$$\begin{array}{r} 932 \\ \times 6 \\ \hline 5592 \end{array}$$

Ensure all the numbers are lined up in the correct columns to match their value.

Always start multiplying with the ones column - then move from the right to the left by multiplying each column.

Division - bus stop method

Learning Objectives covered in y4:

4.1.20 Divide 2-digit and 3-digit numbers by a 1-digit number using formal written layout with no remainder

Vocabulary used:

Calculate, written method, mentally, exchange, place value, operation, inverse, answer, divide by, division, share, divisible by, group divide into

Examples:

Dividing by 1 digit

$$635 \div 5$$

$$\begin{array}{r} 127 \\ 5 \overline{)635} \end{array}$$

Write the number that is being divided in the bus stop with the other number at the start of the bus stop.

Place any remainders next to the following number so it can be accounted as a tens digit.

Remember to express any remainders at the end of an answer.

