

How to support your child in Maths in Year 4

The main focus of mathematics teaching in Year 4 is to ensure that pupils become increasingly fluent with whole numbers and the four operations, including number facts and the concept of place value. This should ensure that pupils develop efficient written and mental methods and perform calculations accurately with increasingly large whole numbers.

By the end of year 4, pupils should have memorised their multiplication tables up to and including the 12 multiplication table.

Number and Place value

Children should already be able to:

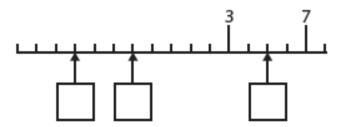
- count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
- recognise the place value of each digit in a three-digit number (hundreds, tens, ones)
- compare and order numbers up to 1000
- read and write numbers up to 1000 in numerals and in words
- solve number problems and practical problems involving these ideas.

New learning:

- Order and compare numbers beyond 1000
- Count to multiples of 1000; count backwards through zero to include negative numbers
- Find 1000 more or less than a given number
- Round whole numbers to 10,000 to the nearest 10, 100 or 1000
- Rounds decimals with one decimal place to the nearest whole number
- Convert from larger to smaller units of metric measure e.g. m to cm
- Count in multiples of 6, 7, 9 and 25
- Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten

Example of deeper understanding:

Write the missing numbers in the boxes.



Mental and written calculations

Addition and subtraction

Children should already be able to:

- Add and subtract multiples of 10s , 100s, 1000s
- Be fluent when adding 2 digit + 2 digit
- Partition second number to add
- Know decimal pairs of 10 and 1
- Use near doubles to add
- Adjust both numbers before adding
- Add near multiples
- Partition and recombine
- Be fluent when subtracting 2 digit 2 digit
- Partition second number to subtract
- Decimal subtraction from 10 or 1
- Find the difference between two numbers
- Subtract near multiples by rounding and adjusting

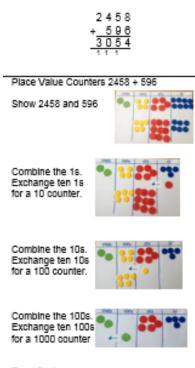
New learning:

- Solve calculation problems involving two-step addition and subtraction in context, deciding which operations to use and why
- Solve calculation problems involving two-step addition and subtraction in context, deciding which methods to use and why

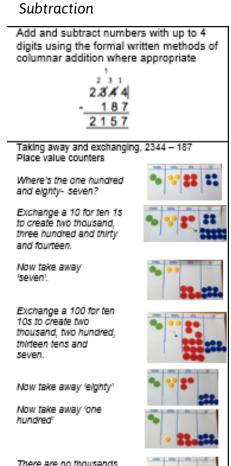
How we teach it

Addition

Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition where appropriate



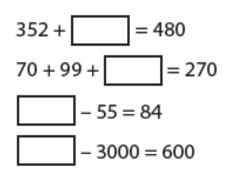




to take away.

Example of deeper understanding:

Fill in the missing numbers.



Multiplication and Division

Children should already be able to:

- 4x, 8x tables and division facts
- 10 times bigger
- 3x, 6x and 12x tables and division facts
- Double larger numbers and decimals
- 3x, 9x tables and division facts
- 11x, 7 x tables and division facts
- 6x, 12 x tables and division facts
- 10 times smaller
- Halve larger numbers and decimals

New learning:

- Count in multiples of 6, 7,9 and 25
- Multiply two digit and three digit numbers by a one digit number using formal written layout
- Divide two digit and three digit numbers by a one digit number using formal written layout

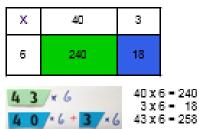
How we teach it:

Multiplication

Division

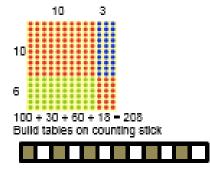
Multiply two-digit and	
three-digit numbers by	243
a one-digit number	<u>x 6</u>
using formal written	<u>2058</u>
layout	1

43 x 6 by partitioning



If I know $4 \ge 6 = 24$ the 40 ≥ 60 is ten times bigger.

13 x 16 by partitioning



Grouping using partitioning 196 \div 6 if I know 3 x 6 ... then 30 x 6...



'Chunking up' on a number line 196 + 6 = 32 r 4



Use language of division linked to tables.



Example of deeper understanding:

What do you notice about the following calculations? Can you use one calculation to work out the answer to other calculations?

2 × 3 =	6 × 7 =	9×8=
2 × 30 =	6 × 70 =	9×80=
2 × 300 =	6 × 700 =	9×800=
20 × 3 =	60 × 7 =	90 × 8 =
200 × 3 =	600 × 7 =	900 × 8 =