

Year 3

Addition and Subtraction

- I can add and subtract numbers mentally, to a three-digit number and hundreds
- I can add and subtract numbers up to three digits using column method

Fractions, Decimals and Percentages

- I can add and subtract fractions with the same denominator within one whole up

Mental Times Table Facts

- I can recall multiplication and division facts for 3, 4 and 8 times tables

Vocabulary : addition, subtraction, multiplication, division, product, numeral, greater than, less than, numerator, denominator, unit fraction, compare, order, tenths

Year 4

Addition and Subtraction

- I can use column addition to add numbers with up to 4 digits
- I can use column subtraction to subtract numbers with up to 4 digits
- I can use the inverse to find missing numbers

Multiplication and Division

- I can multiply and divide by 0 and 1 and explain the effect
- I can multiply two-digit and three-digit numbers by a one-digit number using column multiplication I can use short division to divide 3 digit numbers by 1 digit
- I can multiply and divide by 10 and 100 with up to 2d.p.

Fractions, Decimals and Percentages

- I can add and subtract fractions with the same denominator

Mental Times Table Facts

- I can recall all times tables and division facts for up to 12 x 12
- use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers

Vocabulary: hundredths, decimal, round, negative, equivalent



Progression in Arithmetic at Banks Lane Junior School

The national curriculum for mathematics aims to ensure that all pupils:

- become **fluent** in the fundamentals of mathematics, including through varied and **frequent practice** with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to **recall and apply knowledge rapidly and accurately**.

Structure of our Sessions at Banks Lane:

- Daily Can you Still to aid retention of all skills
- Daily Mental and Written calculations to recall and apply knowledge rapidly



Year 6

Multiplication and Division

- I can multiply multi-digit numbers up to 4 digits by a two-digit whole number method of long multiplication
- I can multiply 1 digit numbers with 2d.p. by whole numbers e.g. 2.45 x 9
- I can divide numbers up to 4 digits by a two-digit number using the formal written method of short division
- I can use long division to divide 4 digits by 2 digits
- I can use BODMAS

Vocabulary: Million, BODMAS, Common factors, common multiples, simplify, efficiency, degree of accuracy.

Fractions, Decimals and Percentages

- I can add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- I can multiply simple pairs of proper fractions, writing the answer in its simplest form
[for example, $\frac{1}{4} \times \frac{1}{2} = \frac{1}{8}$]
- I can divide fractions by whole numbers
- I can find any percentage of an amount e.g. 72% of 360
- I can identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10, 100 and 1000 giving answers up to three decimal places

Mental Times Table Facts

- I can perform mental calculations, including with mixed operations and large number
- I can multiply using decimal numbers e.g. 0.07 x 2

Year 5

Addition and Subtraction

- I can add and subtract mentally with increasingly large numbers
- I can add and subtract numbers with more than 4 digits using column method

Multiplication and Division

- I can multiply 4 digits by up to 2 digits using column multiplication
- I can divide 4 digits by 1 digit using short division

Fractions, Decimals and Percentages

- I can add and subtract fractions with the same denominator (or multiples of)
- I can multiply fractions and mixed numbers by a whole number (CPA)

Mental Times Table Facts

- I can multiply and divide numbers mentally drawing upon known facts e.g. 90 x 40
- I can multiply and divide by 10, 100 and 1000

Vocabulary: efficient, factors, composite, prime, square numbers, cubed, half, quarter.

