Roberts Primary School

Maths Curriculum

Year 3

Number- Number and Place Value

Our pupils will be taught 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
- ✓ identify, represent and estimate numbers using different representations
- ✓ read and write numbers up to 1000 in numerals and in words
- ✓ solve number problems and practical problems involving these ideas.

Number- Addition and Subtraction

Our pupils will be taught to:

- ✓ add and subtract numbers mentally, including:
  - a three-digit number and ones
  - a three-digit number and tens
  - a three-digit number and hundreds
- ✓ add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction
- ✓ estimate the answer to a calculation and use inverse operations to check answers
- ✓ solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

Number- Multiplication and Division

Our pupils will be taught to:

- ✓ recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- ✓ write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
- ✓ solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.

Number- Fractions

Our pupils will be taught to:

- ✓ count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
- ✓ recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators
- ✓ recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- ✓ recognise and show, using diagrams, equivalent fractions with small denominators
- ✓ add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
- ✓ compare and order unit fractions, and fractions with the same denominators
- ✓ solve problems that involve all of the above.

Measurement

Our pupils will be taught to:

- ✓ measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- ✓ measure the perimeter of simple 2-D shapes
- ✓ add and subtract amounts of money to give change, using both £ and p in practical contexts
- ✓ tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- ✓ estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight
- ✓ know the number of seconds in a minute and the number of days in each month, year and leap year
- ✓ compare durations of events [for example to calculate the time taken by particular events or tasks].

Geometry- Properties of Shape
Our pupils will be taught to: ✓ draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them ✓ recognise angles as a property of shape or a description of a turn ✓ identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle ✓ identify horizontal and vertical lines and pairs of perpendicular and parallel lines.
Statistics
Our pupils will be taught to: ✓ interpret and present data using bar charts, pictograms and tables ✓ solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables.