

**Number and Place Value**

- 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.

**Addition and subtraction**

- 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.

**Multiplication and division**

- 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 an objects are connected to m objects.

**Fractions**

- 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 non-unit 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.

**Measures**

- 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].



## Ravensfield Maths Curriculum Year 3

### Geometry – Properties of shape

- 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

- 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.

## Daily Skills Progression

(Number expectations from the new curriculum 2014)

Number skills which children need to know before starting year 3. Practise these skills over the summer ready for Year 3.

### Year 2

- Order 3 digit numbers to 1,000
- Count in steps of 2,3,5 from 0 and 10's from any given number forward and backwards.
- Number facts for numbers to 12
- Know what must be added to a 2 digit number to make the next multiple of 10 ( $52 + ? = 60$ ).
- Know multiples of 2,5,10
- Compliments to 20 e.g  $4+16$
- Compliments to 100 in multiples of 10 e.g  $3+7$ ,  $30+70$
- Count in fractions of  $\frac{1}{2}$  to 10
- Recognise odd and even numbers to 100
- Doubling and halving (from double 1 to double 20 and half of 2 to half 40)

From September, children will practise the following basic number and counting skills. They need to know them by heart and be able to apply them to their maths work. Children need to practise these facts at home to reinforce learning from school to help them become fluent.

### Year 3

- Count from 0 in multiples of 4, 8, 50 and 100
- Count 10 more or 10 less from any given number
- Count 100 more or less from any given number
- Know multiples of 2,3,4,5,8,10,50 and 100
- Compliments to 100. E.g  $31+69$
- Compliments to 100 with multiples of 100 (eg  $300 + 700$ )
- Read any unit or non-unit fraction less than 1.
- Count in fractions of  $\frac{1}{2}$ ,  $\frac{1}{4}$  and  $\frac{1}{10}$  from any number
- Know number facts for all numbers to 20
- Doubles of all numbers to 100 with one's digit 5 or less and know corresponding halves (eg double 43, half of 72, half of 44)
- Reinforce doubles and halves of all multiples of 10 and 100
- Recognise any odd or even number