

**SRPA Mathematician**

There are 3 areas underpinning the mathematics curriculum.

**Fluency**

Pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately. This is facilitated through varied and frequent practice with increasingly complex problems.

**Mathematical reasoning**

Pupils learn to follow a line of enquiry and develop an argument, justification or proof using mathematical vocabulary.

**Problem solving**

Pupils apply their knowledge to a variety of increasingly routine and non-routine problems. They break the problems into a series of simple steps and work systematically to find solutions.

 **NUMBER SENSE**

YEAR 3 PUPIL PASSPORT

I can. count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number ………...

 I can recognise the place value of each digit in a 3-digit

number (100s, 10s, 1s) …………………………….……………

 I can compare and order numbers up to 1,000

…………………………………………………………………………….

 I can identify, represent and estimate numbers using different representations………….…………………………………………...

 I can read and write numbers up to 1,000 in numerals and in words solve number problems and practical problems involving these ideas………………………………………………

  **ADDITION AND SUBTRACTION**

YEAR 3 PUPIL PASSPORT

 I can add and subtract numbers mentally, including:

- a three-digit number and 1s

- a three-digit number and 10s

- a three-digit number and 100s……………………………

 I can add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction………………......………………………………………

 I can 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 ………………………….

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 **MULTIPLICATION AND DIVISION**

YEAR 3 PUPIL PASSPORT

 I can recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables…………………………… 

 I can 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………………………………………………………….……..

 I can 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.......................... 

 **FRACTIONS**

YEAR 3 PUPIL PASSPORT

 I can 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……………………..

 I can recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators………………………………………………………….

 I can recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators………

 I can recognise and show, using diagrams, equivalent fractions with small denominators……………………….…

 I can add and subtract fractions with the same denominator within one whole [for example, 5/7+1/7 = 6/7]…..

 I can compare and order unit fractions, and fractions with the same denominators solve problems that involve all of the above

……………………………………………………………………………

**MEASUREMENT**

YEAR 3 PUPIL PASSPORT

 I can measure, compare, add and subtract: lengths (m/cm/

mm); mass (kg/g); volume/capacity (l/ml)……………….

 I can measure the perimeter of simple 2-D shape

…………………………………………………………………………….

 I can add and subtract amounts of money to give change, using both £ and p in practical contexts…………….....

 I can tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks………………………......……………..… 

 I can 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, am/pm, morning, afternoon, noon and midnight………………….

 I know the number of seconds in a minute and the number of days in each month, year and leap year

………………………………………………………………………….…

 I can compare durations of events [for example, to calculate the time taken by particular events or tasks]……….....

**GEOMETRY**

YEAR 3 PUPIL PASSPORT

 I can draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them………………………..………

 I can recognise angles as a property of shape or a description of a turn………………………………………………

 I can identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than

or less than a right angle………………………….………… 

 I can identify horizontal and vertical lines and pairs of perpendicular and parallel lines………….……………….....

**STATISTICS**

YEAR 3 PUPIL PASSPORT

 I can 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………………………………………………………..……

**ALGEBRA**

YEAR 3 PUPIL PASSPORT

 I can solve addition and subtraction problems involving missing numbers…………………………………………………...

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