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| **Garden Suburb Junior School**  **Maths**  **Year 5 National Curriculum Programme of Study Statements** |
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| **Number and place value** |
| I can read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit |
| I can count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 |
| I can interpret negative numbers in context |
| I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 |
| I can solve number problems and practical problems that involve all of the above |
| I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals |
| **Number - Addition and subtraction** |
| I can add and subtract whole numbers with more than 4 digits, including using formal written methods |
| I can add and subtract numbers mentally with increasingly large numbers |
| I can use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy |
| I can solve addition and subtraction multi-step problems in contexts, deciding which methods to use and why |
| **Number – Multiplication and division** |
| I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers |
| I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers |
| I can establish whether a number up to 100 is prime and recall prime numbers up to 19 |
| I can multiply numbers up to 4 digits using a formal written method |
| I can multiply and divide numbers mentally drawing upon known facts |
| I can divide numbers up to 4 digits using the formal written method of short division and interpret remainders |
| I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 |
| I can recognise and use square numbers and cube numbers and the notation for squared (²) and cubed (³) |
| I can solve problems involving multiplication and division using knowledge of factors and multiples, squares and cubes |
| I can solve problems involving addition, subtraction, multiplication and division |
| I can solve problems involving multiplication and division, including scaling by simple fractions |
| **Number – fractions (including decimals and percentages)** |
| I can compare and order fractions whose denominators are all multiples of the same number |
| I can identify, name and write equivalent fractions of a given fraction |
| I can recognise mixed numbers and improper fractions and convert from one form to the other 2/5 + 4/5 = 6/5 = 1 1/5 |
| I can add and subtract fractions with the same denominator and denominators that are multiples of the same number |
| I can multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams |
| I can read and write decimal numbers as fractions for example, 0.71 = 71/100 |
| I can recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents |
| I can round decimals with two decimal places to the nearest whole number and to one decimal place |
| I can read, write, order and compare numbers with up to three decimal places |
| I can solve problems involving number up to three decimal places |
| I can recognise and understand the symbol (%) and write percentages as a fraction and decimal |
| I can solve problems which require knowing percentage and decimal equivalents of ½ , ¼ , 1/5 , 2/5 , 4/5 |

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| **Measurement** |
| I can convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) |
| I can understand and use approximate equivalences between metric and imperial units such as inches, pounds and pints |
| I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres |
| I can calculate and compare the area of rectangles (including squares), using standard units, (cm²) and (m²) and estimate the area of irregular shapes |
| I can estimate volume and capacity |
| I can solve problems involving converting between units of time |
| I can use all four operations to solve problems involving measure |
| **Geometry – properties of shapes** |
| I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations |
| I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles |
| I can draw given angles, and measure them in degrees (°) |
| I can identify: angles at a point and one whole turn (total 360°) ; angles at a point on a straight line and ½ a turn (total 180°) and other multiples of 90° |
| **Geometry – position and direction** |
| I can identify, describe and represent the position of a shape following a reflection or translation |
| **Statistics** |
| I can solve comparison, sum and difference problems using information presented in a line graph |
| I can complete, read and interpret information in tables, including timetables |