**Information for Parents/Carers**

**Mathematics Targets - A Year 6 Mathematician**

|  |
| --- |
| **Number** |
| I can use negative numbers in context, and calculate intervals across zero. |
| I can round any whole number to a required degree of accuracy and solve problems which require answers to be rounded to a specific degree of accuracy. |
| I can solve problems involving the relative sizes of two quantities where the missing values can be found by using integer multiplication and division facts. |
| I can use common factors to simplify fractions; use common multiples to express fractions in the same denomination. |
| I can solve problems involving the calculation of percentages. |
| I can multiply 1-digit numbers with up to two decimal places by whole numbers. |
| I can perform mental calculations, including with mixed operations with large numbers. |
| I can divide numbers up to 4-digits by a 2-digit whole number using formal written methods of long division and interpret remainder in various ways. |
| I use my knowledge of order of operations to carry out calculations involving all four operations. |
| 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. |
| I can divide proper fractions by whole numbers. |
| I can associate a fraction with division and calculate decimal fraction equivalents. |
| I can express missing number problems algebraically. |
| I can find pairs of numbers that satisfy number sentences involving two unknowns. |
|  |
| **Measurement and geometry** |
| I can recognise, describe and build simple 3D shapes, including making nets. |
| I can compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangle, quadrilateral and regular polygons. |
| I can illustrate and name parts of circles, including radius, diameter and circumference and know that the radius is half the diameter. |
| I can read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and visa versa, using decimal notation to up to 3 decimal places. |
| I can calculate the area of a parallelogram and triangles and calculate, estimate and compare volume of cubes and cuboids using standard units. |
| I can interpret and construct pie charts and line graphs and use these to solve problems. |

**Information for Parents/Carers**

**Mathematics Targets**

**Exceeding Year 6 Expectations**

|  |
| --- |
| I can compare, order and convert between fractions, decimals and percentages, for example, in contexts related to science, history or geography learning |
| I can move beyond squared and cubed numbers to calculate problems such as X x 10n where n is positive. |
| I can use =, ≠, <, >, ≤, ≥ correctly. |
| I can multiply all integers, (using efficient written methods) including mixed numbers and negative numbers. |
| I can recognise an arithmetic progression and find the n*th* term . |
| I can use a formula for measuring the area of a shape, such as a rectangle and triangle to work out the area of an irregular shape in the school environment |
| I can use the four operations with mass, length, time, money and other measures, including the use of decimal quantities. |
| I can create a scaled model of an historical or geographical structure showing an acceptable degree of accuracy using known measurements. |
| I can calculate the costs and time involved of a visit to a destination in another part of the world relating to on-going learning in history or geography. |
| I can collect my own data on a personal project and present information in formats of my choosing, using charts, graphs and tables, and answer specific questions related to my research. |