

An overview of our Maths throughout the year



Year 6

- ◆ read, write, order and compare numbers up to 10 million and determine the value of each digit
- ◆ short and long multiplication and division using numbers up to four digits; multiply one-digit numbers with up to two decimal places by whole numbers
- ◆ mental calculations, including with mixed operations and large numbers
- ◆ multiply and divide numbers by 10, 100 and 1000 where the answers are up to three decimal places
- ◆ add and subtract fractions with different denominators and mixed numbers
- ◆ multiply simple pairs of proper fractions and divide proper fractions by whole numbers
- ◆ recall and use equivalences between simple fractions, decimals and percentages
- ◆ solve problems involving ratio and proportion
- ◆ use algebra in terms of formula, sequences, variables and unknowns

- ◆ recognise and use the formula for volume and area including parallelograms and triangles

- ◆ illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- ◆ recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles
- ◆ draw and translate simple shapes on the coordinate plane, and reflect them in the axes

- ◆ construct pie charts
- ◆ calculate and interpret the mean as an average

- ◆ solve number problems and practical problems involving these ideas

This Autumn term we will be learning:

- To read, write, order and compare numbers at least to 10,000,000 and determine the value of each digit.
- To round any whole number to a required degree of accuracy.
- To perform mental calculations, including with mixed operations and large numbers.
- To solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.
- To identify common factors, common multiples and prime numbers.
- To solve problems involving addition, subtraction, multiplication and division.
- To multiply multi-digit numbers up to 4 digits by a two-digit whole number using the efficient written method of long multiplication.
- To divide numbers up to 4 digits by a two-digit whole number using the efficient written method of long division, and interpret remainders as whole number remainders, fractions or by rounding, as appropriate for the context.
- To solve problems involving the calculation and conversion of units of measure, using decimal notation to three decimal places where appropriate.
- To identify the value of each digit to three decimal places and multiply and divide numbers by 10, 100, 1000 where the answers are up to three decimal places.
- To draw 2D shapes using given dimensions and angles.
- To compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals and regular polygons.

This is how you can help:

- Apps** - Squeebles Times tables + Division - all times tables and division facts
- Number** - look at the football attendances online or in the paper, ask your child to read the figures, round them to the nearest 10, 100 and 1000.
- Divide** the attendance figures by 10, 100 and 1000.
- Addition and subtraction** - using the football attendance figures ask your child to find totals of two clubs or find the difference between two clubs figures.