

## An overview of our Maths throughout the year



Year 5

- ◆ read, write, order and compare numbers to at least 1 million and numbers with up to three decimal places, determine the value of each digit
- ◆ interpret negative numbers in context, counting forwards and backwards
- ◆ round any number up to a million to a power of 10 and decimals with two decimal places to the nearest whole or tenth
- ◆ add and subtract whole numbers with more than four-digits, including using formal written methods
- ◆ identify prime numbers to 100 and recall those to 19, awareness of prime factors and non-prime numbers
- ◆ short multiplication and division of four-digit by a one-digit and long multiplication of four-digit by two-digit number
- ◆ multiply and divide whole numbers and those involving decimals by 10, 100 and 1000
- ◆ compare, order, add and subtract fractions whose denominators are all multiples of the same number
- ◆ understand that per cent relates to “number of parts per 100”, and write percentages as a fraction with denominator 100, and as a decimal
- ◆ multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

- ◆ convert different units of metric measures; understand and use equivalences between metric and imperial units
- ◆ calculate the perimeter of composite rectilinear and the area of rectangles using standard units

- ◆ given angles and measure them in degrees (°) including acute, obtuse and reflex angles
- ◆ distinguish between regular and irregular polygons based on reasoning about equal sides and angles

- ◆ **solve number problems and practical problems involving these ideas**

This term we will be learning:

### Number

**Read, write, order and compare** numbers to **at least 1 million**, e.g. 3 452 563 written in words is three million, four hundred and fifty-two thousand and five hundred and sixty-three.

### Calculation

**Add and subtract** whole number with **more than four digits** including using a formal written methods.

**Multiply and divide** whole numbers and those **involving decimals** by **10, 100 and 1000**, e.g.  $34 \times 1000 = 34\ 000$

### Fractions

**Compare and order** fractions whose denominators are all **multiples** of the same number, e.g.  $\frac{2}{3}$ ,  $\frac{4}{9}$ ,  $\frac{5}{6}$ ,  $\frac{7}{12}$

### Measures

**Convert** different units of **metric measures**, e.g. **convert** centimetres to metres by multiplying by 100, or millilitres to litres by multiplying by 1000.

### Geometry

**Measure** angles in degrees (°) including acute, obtuse and reflex angles.

This is how you can help:

- ◆ Challenge your child to ask you questions to guess your number. You may only answer ‘Yes’ or ‘No’. For example, he could ask questions like ‘Is it less than one million?’ See if he can guess your number in fewer than 5 questions.

### **TV addicts**

Ask your child to keep a record of how long he / she watches TV each day for a week. Then ask him / her to do this.

- ◆ Work out the total watching time for the week.

Instead of watching TV, you could ask them to keep a record of time spent eating meals, or playing outdoors, or anything else they do each day.