Year 4 Maths

End of Year Expectations

MEASURES

- Convert between different units of measure.
- Measure and calculate the perimeter of a rectilinear figure in centimetres and metres.
- Find the area of rectilinear shapes by counting squares.
- Estimate, compare and calculate different measures
- Estimate, compare and calculate different measures, including money in pounds and pence.

FRACTIONS AND DECIMALS

- Recognise and show, using diagrams, families of common equivalent fractions.
- Count up and down in hundredths.
- Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
- Solve problems involving increasingly harder fractions to calculate quantities,
- Use fractions to divide quantities.
- Add and subtract fractions with the same denominator.
- Recognise and write decimal equivalents of any number of tenths or hundredths.
- Recognise and write decimal equivalents to ½, ¼ and ¾.
- Find the effect of dividing a one- or two-digit number by 10 and 100, tenths and hundredths.
- Round decimals with one decimal place to the nearest whole number.
- Compare numbers with the same number of decimal places up to two decimal places.
- Solve simple measure and money problems involving fractions and decimals to two decimal places.

NUMBER AND PLACE VALUE

- Count in multiples of 6, 7, 9, 25 and 1000.
- Find 1000 more or less than a given number.
- Count backwards through zero to include negative numbers.
- Recognise the place value of each digit in a four-digit number.
- Order and compare numbers beyond 1000.
- Identify, represent and estimate numbers.
- Round any number to the nearest 10, 100 or 1000.
- Solve number and practical problems that involve all of the above and with increasingly large positive numbers.
- Read Roman numerals to 100 (I to C)
- Know that over time, the numeral system changed to include the concept of zero and place value.

STATISTICS

- Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.

GEOMETRY

- Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes
- Identify acute and obtuse angles
- Compare and order angles by size.
- Identify lines of symmetry in 2-D shapes presented in different orientations.
- Complete a simple symmetric figure with respect to a specific line of symmetry.
- Describe positions on a 2-D grid as coordinates in the first quadrant.
- Describe movements between positions as translations of a given unit to the left/right and up/down.
- Plot specified points and draw sides to complete a given polygon.

CALCULATION

- Add and subtract numbers with up to 4 digits using the column method.
- Estimate and use inverse operations to check answers to a calculation
- Solve addition and subtraction two-step problems in contexts and decide which operations and methods to use and why.
- Recall multiplication and division facts for multiplication tables up to 12 × 12
- Use place value, known and derived facts to multiply and divide mentally.
- Recognise and use factor pairs.
- Understand commutatively in mental calculations.
- Multiply two-digit and three-digit numbers by a one-digit number using formal written layout.
- Solve problems involving multiplying and adding,
- Solve integer scaling problems.