Year 4 – Maths

Knowledge, Skills and Understanding 2018/19

Number & Place Value
• **I can count in multiples of 6, 7, 9, 25 and 1000.** • I can find 1000 more or less than a given number. • **I can count backwards through 0 to include negative numbers.** • I can recognise the place value of each digit of a 4 digit number (thousands, hundreds, tens and units). • **I can order and compare numbers beyond 1000.** • I can identify, represent and estimate numbers using different representations including measures. • **I can round numbers to the nearest 10, 100 or 1000.** • I can solve number and practical problems that involve large positive numbers. • I can read Roman numerals up to 100 and know that the number system has changed to include 0 and place value.
Addition & Subtraction
• I can add and subtract numbers with up to four digits using formal column methods. • I can use estimating and inverse operations to check my answers. • **I can solve two step addition and subtraction problems, using different methods, and explain why I used them.**
Multiplication & Division
• **I can recall times tables facts up to 12 x 12.** • I can use place value and number facts to multiply and divide mentally, including multiplying by 1 and 0, dividing by 1, and multiplying together 3 numbers. • I can use factor pairs in mental calculations. • I can multiply two digit and three digit numbers by a one digit number using a formal written method. • I can solve problems involving multiplication and addition, including using the distributive law e.g. 3 x (12 + 14) = 3 x 12 + 3 x 14.
Fractions
• **I can recognise and show, using diagrams, families of common equivalent fractions.** • **I can count up and down in hundredths and know that dividing an object by 100 creates hundredths as does dividing tenths by ten.** • I can solve problems involving fractions to calculate quantities and fractions to divide quantities. • I can add and subtract fractions with the same denominator. • I can find and write decimal equivalents using tenths and hundredths. • I can find and write decimal equivalents of 1/4, 1/2 and 3/4. • I can divide one and two digit numbers by 10 and 100 and can explain the effect this has on place value. • **I can round decimals using tenths to the nearest whole number.** • I can compare numbers with the same number of decimal places (up to two decimal places). • **I can solve simple money and measure problems involving fractions and decimals up to two decimal places.**

Measurement

- **I can convert different units of measurement e.g. I can convert kilometres into metres or hours into minutes.**
- I can measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres.
- I can find the area of rectilinear shapes by counting squares.
- I can estimate, compare and calculate different measures, including money in pounds and pence.
- I can read, write and compare time between analogue and digital 12-hour and 24-hour clocks.
- I can solve problems where I need to convert units of time, such as hours to minutes, minutes to seconds, years to months or weeks to days.

Properties of Shape

- **I can compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.**
- I can identify acute and obtuse angles. I can compare and order angles up to two right angles by size.
- **I can identify lines of symmetry in 2-D shapes presented in different orientations.**
- I can complete a simple symmetric figure with respect to a specific line of symmetry.
- I can recognise where angles are greater than two right angles.
- I know the term straight angle refers to two right angles together.
- I can use line symmetry with two lines of symmetry.

Position & Direction

- I can plot positions on a 2-D grid as positive number coordinates.
- I can describe movements between positions as translations of a given unit to the left/right and up/down.
- **I can plot points I am given and draw sides to complete a given polygon.**

Statistics

- I can interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
- **I can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs.**