End of Year 4 Maths Expectations

1. Number and place value

a. Can find 1000 more or 1000 less than a given number

b. Can count backwards through zero in steps that are familiar from the previous year e.g.1, 2, 5, 10, 3

c. Can understand the place value of each digit in a three-digit and four-digit number

d. Can compare and order numbers beyond 1000

e. Can represent numbers up to and beyond 1000 using different representations, including measuring equipment

f. Can round any number to the nearest 10, 100 or 1000, using the context of measures

g. Can solve problems using place value and number facts

2. Number - addition, subtraction (mental and written)

a. Can add two digit and extend to three digit numbers using the formal column method

b. Can subtract two digit and extend to three-digit numbers using the formal column method

c. Can choose whether to add or subtract mentally or using a formal method

d. Can use knowledge of inverse operations to check answers to addition and subtraction calculations.

e. Can solve two-step problems involving addition and subtraction, deciding which operation to use

3. Number - multiplication and division (mental and written)

a. Can recall and use multiplication and division facts for the 3, 4 & 8 times tables

b. Can recall and use multiplication and division facts for all the times table (learning 6, 12, 9, 11 and 7)

c. Can multiply and divide mentally using derived facts such as 600 ÷ 3 = 200 because 2 x 3 = 6 or the associative law (2 x 6 x 5 = 10 x 6 = 60)

d. Can multiply two digit and three digit by one digit numbers using short multiplication

e. Can divide two-digit by one-digit numbers using informal methods such as known facts, arrays and number lines (repeated subtraction)

f. Can begin to divide three digit by one digit numbers with exact answers using short division

g. Can solve problems involving multiplication and division

4. Number - fractions (including decimals and percentages)

a. Can order fractions, numbers and measures on a number line and recognise simple equivalence
b. Can show equivalent fractions using diagrams such as a fraction wall or a grid of squares
c. Can count in hundredths
d. Can place common fractions on a number line e.g. 1/4s, 1/2s, 1/3s,1/10s, 1/5s
e. Can find increasingly harder fractions of a set of objects e.g. 1/3, 1/6, 1/8 and non-unit fractions where the answer is a whole number
f. Can add fractions with the same denonimator
g. Can subtract fractions with the same denominator
h. Can recognise and write the decimal equivalent of any number of tenths or hundredths
i. Can recognise and write the decimal equivalent to 1/4, 1/2 and 3/4, showing it on a number line
j. Can find the effect of dividing one and two digit numbers by 10 and 100, giving the answer in ones, tenths and hundredths
k. Can round numbers with one decimal place to the nearest whole number, using a number line
l. Can compare numbers with the same number of decimal places, up to two decimal places
m. Can solve simple money/fraction problems up to two decimal places
5. Measures
a. Can convert between metric units of length
b. Can convert between metric units of mass
c. Can convert between metric units of capacity
d. Can convert between units of time
e. Can read, write and convert between analogue and digital 12 and 24 hour clocks
f. Can estimate length
g. Can estimate mass
h. Can estimate capacity
i. Can measure and calculate the perimeter of rectangular shapes, including squares
j. Can find the area by counting squares
k. Can solve problems comparing and converting different units of measure, including money and time
6. Geometry - properties of shape
a.Can compare and classify geometric shapes, including quadrilaterals and triangles based on their properties and sizes
b.Can identify regular or irregular polygons
c. Can identify acute and obtuse angles

d. Can compare and order angles up to two right angles by size
e. Can identify lines of symmetry in 2D shapes presented in different orientations
f. Can complete a simple shape or diagram with respect to a specific line of symmetry
g. Can solve problems involving shape
7. Geometry - position and direction
a. Can describe positions on a 2D grid as coordinates in the first quadrant
b. Can describe movements between positions as translations of a given unit to the left/right and up/down
c. Can plot specified points and draw sides to complete a given polygon
8. Statistics
a. Can present discrete and continuous data using appropriate graphical methods including bar charts and time graphs
b. Can interpret discrete and continuous data using appropriate graphical methods including bar charts and time graphs
c.Can solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs
d. Can solve problems involving statistics