End of Year 2 Maths Expectations

1. Number and place value

a. Can understand the value of 1s and 10s in any two - digit number

b. Can say 1 more and 1 less than a number up to 100

c. Can partition one-digit numbers e.g. 7 = 4 + 3 or 5 + 2 or 6 + 1

d. Can partition two-digit numbers in different combinations of 10s and 1s e.g. 43 = 40 + 3 or 30 + 13 or 20 + 23 or 10 + 33

e. Can identify and represent two-digit numbers using different representations such as number lines or base ten apparatus etc.

f. Can estimate where a two-digit number would be placed on a 0 - 100 number line where tens divisions are marked

g. Can read and write numbers to at least 100 in numerals including using 0 as a place holder e.g. 109

h. Can order more than two numbers using a blank number line

i. Can solve problems using place value and number facts

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

a. Can recall addition facts to 10 and 20 and all the numbers in between fluently e.g. 15 + 2 = 17

b. Can recall subtraction facts to 10 and 20 and all the numbers in between fluently e.g. 14 - 3 = 11

c. Can use addition number bonds to 10 and 20 to derive related facts to 100 using multiples of 10 e.g. 70 + 30 = 100

d. Can use subtraction facts to 10 and 20 to derive related facts to 100 using multiples of 10 e.g. 100 - 30 = 70

e. Can add a two-digit number and 1s using concrete objects or pictorial representations

f. Can subtract a two-digit number and 1s using concrete objects or pictorial representations

g. Can add a two-digit number and 10s using concrete objects or pictorial representations

h. Can subtract a two-digit number and 10s using concrete objects or pictorial representations

i. Can add 2 two-digit numbers using concrete objects or pictorial representations

j. Can subtract 2 two-digit numbers using concrete objects or pictorial representations where no regrouping is required e.g. 74 - 32

k. Can subtract 2 two-digit numbers using concrete objects or pictorial representations where regrouping is required e.g. 63 - 36 =

l. Can solve problems involving addition using concrete objects and pictorial representations involving numbers, quantities and measures

m. Can solve problems involving subtraction using concrete objects and pictorial representations involving numbers, quantities and measures

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

a. Can use the x, ÷ and = signs to write mathematical statements

b. Can recall and use multiplication facts for the 2 times table

c. Can recall and use division facts for the 2 times table

d. Can recall and use multiplication facts for the 5 times table

e. Can recall and use division facts for the 5 times table

f. Can recall and use multiplication facts for the 10 times table

g. Can recall and use division facts for the 10 times table

h. Can recognise and explain odd & even numbers within the context of the patterns in the 2, 5 and 10 multiplication tables

i. Can calculate mathematical statements for multiplication using the 2, 5 and 10 times tables

j. Can calculate mathematical statements for division using the 2, 5 and 10 times tables

k. Can solve problems involving multiplication using concrete objects or pictorial representations

l. Can solve problems involving division using concrete objects and pictorial representations

4. Number - fractions (including decimals and percentages)

a. Can understand that the bottom number (denominator) denotes the number of equal parts the whole is divided into

b. Can understand that the top number in a fraction (numerator) denotes the number of equal parts represented

c. Can understand 1/2 represents one of two equal parts of a whole

d. Can find 1/2 of a shape or set of objects

e. Can understand that 1/4 represents one of four equal parts of a whole

f. Can find 1/4 of a shape or set of objects

g. Can understand 1/3 represents one of three equal parts of one whole

h. Can find 1/3 of a shape and set of objects

i. Can understand 2/4 represents two of four equal parts of a whole

j. Can find 2/4 of a shape or set of objects

k. Can recognise the equivalence between 2/4 and 1/2

l. Can understand that 3/4 represents three of four equal parts of a whole

m. Can find 3/4 of a shape or set of objects

n. Can write a fraction represented in a shape or set of objects (1/2, 1/3, 1/4, 2/4, 3/4)

o. Can solve and write simple fractions such as 1/2 of 6 = 3

5. Measures

a. Can choose and use appropriate standard units to measure length and height (m/cm using rulers, metre sticks, tape measure etc.)

b. Can choose and use appropriate standard units to measure mass (kg/g using scales, balance scales etc.)

c. Can choose and use appropriate standard units to measure temperature (°C using thermometers.)

d. Can choose and use appropriate standard units to measure capacity (l/ml using different measuring vessels.)

e. Can compare and order two or more different measurements (length, mass, temperature or capacity/volume)

f. Can use the symbol p for pence and £ for pounds when combining amounts to make a particular value e.g. 20p + 5p = 25p, £2 + £1 = £3

g. Can solve simple problems in a practical context involving addition of money of the same unit

h. Can solve simple problems in a practical context involving subtraction of money of the same unit, including giving change including giving change
i. Can tell the time on an analogue clock using o' clock, half past, quarter to and quarter past
j. Can tell the time on an analogue clock to five minutes

6. Geometry - properties of shape

a. Can identify and describe 2D shapes using knowledge of properties including number of sides (including in different orientations)
b. Can identify a line of symmetry in 2D shapes
c. Can identify and describe 3D shapes using knowledge of properties including number of faces, edges and vertices
d. Can compare and sort 2D & 3D shapes including everyday objects using knowledge of properties

7. Geometry - position and direction

a. Can describe position, direction and movement in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)

8. Statistics

a. Can interpret pictograms where one symbol represents one or more than one (1s, 2s, 5s, 10s)
b. Can interpret a block diagram where the scale goes up in ones, fives or tens
c. Can interpret tally charts
d. Can interpret tables
e. Can solve one step problems such as adding amounts e.g what is the total sum of money collected across a week?
f. Can answer questions about totalling data e.g. How many people were asked altogether?
g. Can answer questions about comparing data e.g. How many more people liked ...than ...?