

## Normanby Primary School – Year 2 Programme of Study

### Ma2/2.1 Number & Place Value

Ma2/2.1a count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward

Ma2/2.1b recognise the place value of each digit in a two-digit number (10s, 1s)

Ma2/2.1c identify, represent and estimate numbers using different representations, including the number line

Ma2/2.1d compare and order numbers from 0 up to 100; use  $<$ ,  $>$  and  $=$  signs

Ma2/2.1e read and write numbers to at least 100 in numerals and in words

Ma2/2.1f use place value and number facts to solve problems.

### Ma2/2.2 Addition & Subtraction

Ma2/2.2a solve problems with addition and subtraction:

i. using concrete objects and pictorial representations, including those involving numbers, quantities and measures

i. applying their increasing knowledge of mental and written methods

Ma2/2.2b recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100

Ma2/2.2c add and subtract numbers using concrete objects, pictorial representations, and mentally, including:

i. a two-digit number and 1s

ii. a two-digit number and 10s

iii. 2 two-digit numbers

iv. adding 3 one-digit numbers

Ma2/2.2d show that addition of 2 numbers can be done in any order (commutative) and subtraction of one number from another cannot

Ma2/2.2e recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems.

### Ma2/2.3 Multiplication & Division

Ma2/2.3a recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers

Ma2/2.3b calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ( $\times$ ), division ( $\div$ ) and equals ( $=$ ) signs

Ma2/2.3c show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot

Ma2/2.3d solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.

### Ma2/2.4 Fractions

Ma2/2.4a recognise, find, name and write fractions  $\frac{1}{3}$ ,  $\frac{1}{4}$ ,  $\frac{2}{4}$  and  $\frac{3}{4}$  of a length, shape, set of objects or quantity

Ma2/2.4b write simple fractions, for example  $\frac{1}{2}$  of 6 = 3 and recognise the equivalence of  $\frac{2}{4}$  and  $\frac{1}{2}$ .

### Ma2/3.1 Measurement

Ma2/3.1a choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ( $^{\circ}$ C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

Ma2/3.1b compare and order lengths, mass, volume/capacity and record the results using  $>$ ,  $<$  and  $=$

Ma2/3.1c recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value

Ma2/3.1d find different combinations of coins that equal the same amounts of money

Ma2/3.1e solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change

Ma2/3.1f compare and sequence intervals of time

Ma2/3.1g tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times.

Ma2/3.1h know the number of minutes in an hour and the number of hours in a day

### Ma2/3.2 Properties of Shapes

Ma2/3.2a identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line

Ma2/3.2b identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces

Ma2/3.2c [identify 2-D shapes on the surface of 3-D shapes](#)

Ma2/3.2d compare and sort common 2-D and 3-D shapes and everyday objects.

<b>Ma2/3.3 Position &amp; Direction</b>
Ma2/3.3a order and arrange combinations of mathematical objects in patterns and sequences
Ma2/3.3b use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
<b>Ma2/4.1 Statistics</b>
Ma2/4.1a interpret and construct simple pictograms, tally charts, block diagrams and tables
Ma2/4.1b ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
Ma2/4.1c ask and answer questions about totalling and comparing categorical data.