

## Normanby Primary School – Year 3 Programme of Study

### Ma3/2.1 Number & Place Value

Ma3/2.1a count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number

Ma3/2.1b recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)

Ma3/2.1c compare and order numbers up to 1,000

Ma3/2.1d identify, represent and estimate numbers using different representations

Ma3/2.1e read and write numbers up to 1,000 in numerals and in words

Ma3/2.1f solve number problems and practical problems involving these ideas.

### Ma3/2.2 Addition & Subtraction

Ma3/2.2a add and subtract numbers mentally, including:

i. a three-digit number and 1s

ii. a three-digit number and 10s

iii. a three-digit number and 100s

Ma3/2.2b add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction

Ma3/2.2c

Ma3/2.2e solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction.

### Ma3/2.3 Multiplication & Division

Ma3/2.3a recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables

Ma3/2.3b write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods

Ma3/2.3c solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which  $n$  objects are connected to  $m$  objects.

### Ma3/2.4 Fractions

Ma3/2.4a count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10

Ma3/2.4b recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators

Ma3/2.4c recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators

Ma3/2.4d recognise and show, using diagrams, equivalent fractions with small denominators

Ma3/2.4e [add and subtract fractions with the same denominator within one whole](#)

Ma3/2.4f compare and order unit fractions, and fractions with the same denominators

Ma3/2.4g solve problems that involve all of the above.

### Ma3/3.1 Measurement

Ma3/3.1a measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)

Ma3/3.1b measure the perimeter of simple 2-D shapes

Ma3/3.1c add and subtract amounts of money to give change, using both £ and p in practical contexts

Ma3/3.1d tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks

Ma3/3.1e estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight

Ma3/3.1f know the number of seconds in a minute and the number of days in each month, year and leap year

Ma3/3.1g [compare durations of events](#)

### Ma3/3.2 Properties of Shapes

Ma3/3.2a draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them

Ma3/3.2b recognise angles as a property of shape or a description of a turn

Ma3/3.2c identify right angles, recognise that 2 right angles make a half-turn, 3 make three quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle

Ma3/3.2d identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

<b>Ma3/4.1 Statistics</b>
Ma3/4.1a interpret and present data using bar charts, pictograms and tables
Ma3/4.1b solve <a href="#">one-step and two-step questions</a> using information presented in scaled bar charts and pictograms and tables.