

## Meadgate Primary School Progression of Skills by Year Group

### Maths

Year 3	
<b>Place Value Counting</b>	Can they count from 0 in multiples of 4, 8, 50 and 100? Can they find 10 or 100 more or less than a given number?
<b>Place Value Representing</b>	Can they identify, represent and estimate numbers using different representations? Can they read and write numbers to at least 1000 in numerals and words?
<b>Place Value Use PV and Compare</b>	Can they recognise the place value of each digit in a three-digit number (hundreds, tens and ones)? Can they compare and order numbers from 0 up to 1000?
<b>Place Value Problems and Rounding</b>	Can they solve number problems and practical problems involving these ideas?
<b>Addition and Subtraction Recall, Represent, Use</b>	Can they estimate the answer to a calculation and use inverse operations to check answers?
<b>Addition and Subtraction Calculations</b>	Can they add and subtract numbers mentally including ones, tens and hundreds? Can they add and subtract numbers with up to three digits, using the formal written methods of columnar addition and subtraction?
<b>Addition and Subtraction Solve Problems</b>	Can they solve problems including missing number problems, using number facts, place value and more complex addition and subtraction?
<b>Multiplication and Division Recall, Represent, Use</b>	Can they recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables?
<b>Multiplication and Division Calculations</b>	Can they 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?
<b>Multiplication and Division Solve Problems</b>	Can they 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?

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<b>Algebra</b>	Can they solve problems including missing number problems?
<b>Fractions Recognise and Write</b>	Can they 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? Can they recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators? Can they recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators?
<b>Fractions Calculations</b>	Can they add and subtract fractions with the same denominator within one whole (for example $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$ )?
<b>Fractions Solve Problems</b>	Can they solve problems that use all of the above?
<b>Geometry 3D Shapes</b>	Can they use modelling materials; recognise 3D shapes in different ways and describe them?
<b>Geometry Angles and Lines</b>	Can they recognise angles as a property of shape or a description of a turn? Can they identify right angles, recognising that two right angles make a half-turn, three make three quarters of a turn and four a complete turn? Can they identify whether angles are greater than or less than a right angle? Can they identify vertical line and pairs of perpendicular and parallel lines?
<b>Measurement Using Measures</b>	Can they measure, compare, add and subtract lengths (m/cm/mm); mass (kg/g) and volume/capacity (l/ml)?
<b>Measurement Money</b>	Can they add and subtract amounts of money to give change, using both £ and p in practical contexts?
<b>Measurement Time</b>	Can they tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks?

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	Can they 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, a.m./p.m., morning, afternoon, noon and midnight? Do they know the number of seconds in a minute and the number of days in each month, year and leap year? Can they compare the duration of events (for example to calculate the time taken by particular events or tasks)?
<b>Measurement Perimeter, Area and Volume</b>	Can they measure the perimeter of simple 2D shapes?
<b>Statistics Present and Interpret</b>	Can they interpret and present data using bar charts, pictograms and tables?
<b>Statistics Solve Problems</b>	Can they ask and answer two-step questions (for example How many more? and How many fewer?) using information presented in scaled bar charts, pictograms and tables?