Year 3 Maths End of Year Expectations

**Number and Place Value**

- Count from 0 in multiples of 4, 8, 50 and 100; find 10 or 100 more or less than a given number
- Recognise the place value of each digit in a 3-digit number (100s, 10s, 1s)
- Compare and order numbers up to 1,000
- Identify, represent and estimate numbers using different representations
- Read and write numbers up to 1,000 in numerals and in words
- Solve number problems and practical problems involving these ideas

**Addition and Subtraction**

- Add and subtract numbers mentally, including:
  - a three-digit number and 1s
  - a three-digit number and 10s
  - a three-digit number and 100s
- Addition using formal written methods for
  - HTU + TU
  - HTU + HTU
- Subtraction using formal written methods for
  - HTU – TU
  - HTU – HTU
- Estimate the answer to a calculation and use inverse operations to check answers
- Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction

**Multiplication and Division**

- Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- 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
- 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

**Fractions**

- 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
- Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- Recognise and show, using diagrams, equivalent fractions with small denominators
- Add and subtract fractions with the same denominator within one whole [for example, 5/7 + 1/7 = 6/7]
- Compare and order unit fractions, and fractions with the same denominators
- Solve problems that involve all of the above

**Measurement**

- Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- Add and subtract amounts of money to give change, using both £ and p in practical contexts
<table>
<thead>
<tr>
<th>Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks</th>
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<tbody>
<tr>
<td>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</td>
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<tr>
<td>Know the number of seconds in a minute and the number of days in each month, year and leap year</td>
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<tr>
<td>Compare durations of events [for example, to calculate the time taken by particular events or tasks]</td>
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<tr>
<td>Measure the perimeter of simple 2-D shapes</td>
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**Properties of Shape**

| Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them |
| Recognise angles as a property of shape or a description of a turn |
| Identify horizontal and vertical lines and pairs of perpendicular and parallel lines |

**Statistics**

| Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs |