

Maths Year 3

Expected:

- Compare and order numbers up to 1000
- Read and write numbers up to 1000 in numerals and words
- Count 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 three-digit number (hundreds, tens, ones)
- Identify, represent and estimate numbers using different representations.
- Solve number problems and practical problems involving place value
- Add and subtract numbers mentally, including: a 3 digit number and ones, a 3 digit number and tens, a 3 digit number and hundreds
- Add and subtract numbers with up to 3 digits using formal written methods of column addition and subtraction - see school calculation policy
- 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
- Recall and use multiplication and division facts for the 3, 4 and 8 times 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
- 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 show, using diagrams, equivalent fractions with small denominators
- Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators
- Compare and order unit fractions and fractions with the same denominators
- Add and subtract fractions with the same denominator within one whole
- Solve problems involving fractions
- Measure, compare, add and subtract: lengths (m/cm/mm): mass (kg/g) volume/capacity (l/ml) including measuring the perimeter of simple 2D shapes
- Add and subtract amounts of money to give change using both £ and p in practical contexts
- Tell and write the time from an analogue clock, including using Roman numerals from 1 to X11 and 12 hour and 24 hour clocks
- Record and compare time in respect to seconds, minutes and hours

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| | <ul style="list-style-type: none"> • Estimate and read time with increasing accuracy to the nearest minute • Compare durations of events • Know the number of seconds in a minute and days in a month, the number of months in a year and the number of days in a year - including a leap year • Identify right angles, recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn: identify whether angles are greater than or less than a right angle • Recognise angles as a property of a shape or a description of a turn • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines • Draw 2D shapes • Make 3d shapes using modelling materials. • Recognise 2D and 3D shapes in different orientations and describe them using mathematical language • Interpret and present data using bar charts, pictograms and tables • Solve one-step and two-step questions using information presented in scales bar charts and pictograms and tables |
| <p>Greater Depth:</p> | <ul style="list-style-type: none"> • Work in a systematic, logical way to find patterns, generalise and justify mathematical thinking • Use reasoning about numbers and relationships to solve more complex problems and explain their thinking • Manipulate the additive relationship: understanding the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition, and understand the related property for subtraction -3AS-3 • Apply know multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division 3MD-1 • Reason about the location of any fraction within 1 in the linear number system • Apply skills to solve multi-step problems • Reason and make links about the properties of shape (including varied orientations) |