

YEAR 3 MATHS

1 Number and Place Value

- Count from 0 in multiples of 4; 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
- Read and write numbers from 1 to 20 in numerals and words.
- Count from 0 in multiples of 4, 50 and 100; find 10 or 100 more or less than a given number
- Compare and order numbers up to 1000
- Read and write numbers up to 1000 in numerals and in words
- Count from 0 in multiples of 4, 8, 50 and 100

2 Addition and Subtraction (including Statistics)

- Add and subtract numbers mentally, including: a three-digit number and ones, three-digit number and hundreds.
- Estimate the answer to a calculation and use inverse operations to check answers
- Add and subtract numbers mentally, including a three-digit number and tens
- Add and subtract numbers with up to three digits
- Solve problems, including missing number problems, using number facts, place value and more complex addition and subtraction
- Statistics: Interpret and present data using bar charts, pictograms and tables
- Statistics: Solve one-step and two-step questions such as 'How many more?' using information presented in scaled bar charts and pictograms and tables

3 Multiplication and Division

- Recall and use multiplication and division facts for the 3, 4 multiplications tables.
- Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know using mental and formal written methods
- Recall and use multiplication and division facts for the 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

4 Fractions

- Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts.
- Recognise, find and write fraction of a discrete set of objects: unit fractions
- Compare and order unit fractions, and fractions with the same denominators
- Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
- Recognise and use fractions as numbers; unit fractions
- Recognise and show, using diagrams, equivalent fractions with small denominations
- Compare and order unit fractions.
- 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.
- Add and subtract fractions with the same denominator within one whole (eg $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$)

5 Measurement

- Measure lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- Measure the perimeter of simple 2-D shapes
- Add and subtract amounts of money
- Tell and write the time from an analogue clock and 12 hour clock
- Use vocabulary such as a.m./p.m., morning, afternoon, noon, midnight
- Add and subtract amounts of money to give change, using both £ and p in practical contexts
- Know the number of seconds in minute, year and leap year
- Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- Estimate and read time with increasing accuracy to the nearest minute
- Record and compare time in terms of seconds, minutes, hours and o'clock

- Use vocabulary such as a.m./p.m., morning, afternoon, noon, midnight
- Know the number of seconds in a minute and the number of days in each month, year and leap year
- Compare durations of events, for example to calculate the time taken by particular events or tasks

6 Geometry

- Draw 2-D shapes and make 3-D shapes using modelling materials (properties of shapes)
- Identify right angles (properties of shapes)
- Identify horizontal and vertical lines (properties of shapes)
- Recognise angles as a property of shape (properties of shapes)
- Identify right angles, recognise that two right angles make a half-turn (properties of shapes)
- Recognise 3-D shapes in different orientations and describe them (properties of shapes)
- Recognise angles as a property of shape or a description of a turn (properties of shapes)
- Recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn (properties of shapes)
- Identify whether angles are greater than or less than a right angle (properties of shapes)
- Identify horizontal and vertical lines and pairs of perpendicular and parallel lines (properties of shapes)