

Year 3 Maths Curriculum



Autumn

Key Vocab

Place Value

hundreds, tens, ones , digit; three-digit number , Place value; represents; stands for, compare, order; greater than (>), less than (<), equal to (=) , partition; exchange , estimate; number line , one more/less; ten more/less; hundred more/less

Addition & Subtraction

add, addition; subtract, subtraction, column method; mental method; exchange , sum; total; altogether, difference; how many more/less, equals (=); is the same as, estimate; approximate

Multiplication & Division

multiply; multiplication; multiplied by , divide; division; divided by/into, times table (2, 4, 8); product; multiple , equal groups; grouping; sharing; share equally, array; repeated addition
remainder; left over

Key Skills

Number: Place Value

- Read and write numbers to 1,000 in numerals and words.
- Count forwards and backwards in steps of 4, 8, 50 and 100.
- Recognise the place value of each digit in 3-digit numbers (hundreds, tens, ones).
- Compare and order numbers up to 1,000 using <, > and =.
- Identify, represent and estimate numbers using number lines and other representations.
- Find 10 or 100 more or less than a given number.
- Round numbers to the nearest 10 and 100.
- Solve number and practical problems involving place value.

Number: Addition and Subtraction

- Add and subtract numbers mentally, including 3-digit numbers and ones/tens/hundreds.
- Use formal written methods of column addition and subtraction (with and without exchange).
- Estimate answers and use inverse operations to check calculations.
- Solve one-step and two-step problems using addition and subtraction, including missing numbers, deciding which operation(s) to use.

Number: Multiplication and Division

- 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 known tables.
- Understand multiplication as repeated addition and arrays.

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- Understand division as sharing and grouping.
- Solve problems involving multiplication and division, including missing number problems.

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Spring

Key Vocab

Multiplication & Division

multiply, divide, times table (3, 4, 8), equal groups, share, grouping
Array, repeated addition, multiplication sentence, division statement
Remainder, compare, greater than (>), less than (<), equals (=)

Length & Perimeter

length, height, width, centimetre (cm), metre (m), millimetre (mm), ruler, metre stick, perimeter, distance, measure, unit of measurement, convert, add, subtract, equivalent

Fractions

equal parts, whole, unit fraction, non-unit fraction, numerator, denominator
fraction of an amount, tenths, mixed number, equivalent fractions, compare, greater than (>), less than (<), equal to (=),
difference, inequality statement

Mass & Capacity

mass, weigh, measure, gram (g), kilogram (kg), capacity, litre (l), millilitre (ml), scale, interval, convert

Key Skills

Number: Multiplication and Division

- Recall and use multiplication and division facts for the 3, 4 and 8 times tables.
- Multiply 2-digit numbers by 1-digit numbers using mental and formal written methods.
- Divide 2-digit numbers by 1-digit numbers, including remainders.
- Solve problems involving multiplication and division, including scaling and correspondence problems.
- Use known facts to derive related multiplication and division facts.

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Measurement: Length and Perimeter

- Measure, compare, add and subtract lengths using mm, cm and m.
- Calculate the perimeter of simple 2D shapes.
- Solve problems involving measurement in real-life contexts.

Number: Fractions

- Understand fractions as equal parts of a whole.
- Recognise and show using diagrams, equivalent fractions with small denominators
- Recognise, find and write unit fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$).
- Count up and down in tenths, recognize that tenths arise from dividing an object into 10 equal parts and in dividing 1 digit numbers or quantities by 10.
- Recognise and find non-unit fractions of amounts and shapes.
- Compare and order fractions with the same denominator.
- Add and subtract fractions with the same denominator within one whole.
- Solve problems involving fractions.

Measurement: Mass and Capacity

- Measure, compare, add and subtract mass (kg/g).
- Measure, compare, add and subtract capacity and volume (l/ml).
- Solve practical problems involving mass and capacity.

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Summer

Key Vocab

Fractions

Fraction, Unit fraction / non-unit fraction, Numerator, Denominator, Whole, Half / halves, Third / quarter, Equivalent fractions, Compare / order fractions

Money

Money, Pound (£), Pence (p), Notes, Coins, Value, Amount, Cost, Change

Measurement - Time

Seconds, minutes, hours, a.m. / p.m., O'clock, half past, quarter past, quarter to, Digital time, Analogue clock, Duration, Earlier / later, Timetable

Geometry - Properties of Shape

Polygon, Triangle (right-angled, isosceles, equilateral), Quadrilateral (square, rectangle, rhombus, parallelogram, trapezium), Vertex / vertices, Edge, Face, Horizontal / vertical, Parallel / perpendicular, Right angle, Acute / obtuse angle

Statistics

Pictogram, Bar chart (bar graph), Table, Block diagram, Tally chart / tally marks, Scale (charts and pictograms), Horizontal / vertical (axes), category, Sort / sorting, Total / totalling, Compare / comparing, Interpret (read and understand data), Present (show data using charts/tables)

Key Skills

Number: Fractions

- Find unit and non-unit fractions of amounts.
- Recognise and use fractions as numbers.
- Compare and order fractions with the same denominator.

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- Solve problems involving fractions in practical contexts.

Measurement: Money

- Add and subtract amounts of money using £ and p.
- Convert between pounds and pence.
- Solve practical problems involving money, including giving change.

Measurement: Time

- Tell and write the time from analogue clocks, including Roman numerals including 12 hour and 24 hour clocks.
- Tell the time to the nearest minute.
- Use a.m. and p.m. correctly.
- Measure and calculate time intervals in seconds, minutes and hours.
- Know the number of seconds in a minute and days in a month, year and leap year.
- Compare duration of events.
- Solve problems involving time, including duration and comparison.

Geometry: Properties of Shape and Angles

- Identify, draw and describe properties of 2D shapes.
- Identify and make 3D shapes from 2D representations.
- Recognise 3D shapes in different orientations and describe them.
- Recognise horizontal, vertical, parallel and perpendicular lines.
- Use correct mathematical vocabulary to describe shapes.
- Recognise angles as a property of shape or a description of a turn.
- Identify right angles in shapes and in everyday objects.
- Recognise 2 right angle make a half turn, 3 make $\frac{3}{4}$ turn and 4 make a complete turn; identify if angle are $<$ or $>$ a right angle
- Compare angles to a right angle.

Statistics

- Interpret and present data using bar charts, pictograms and tables.
- Ask and answer questions using data.
- Solve one-step and two-step problems using information presented in data.