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Maths

At

Buckstones



A guide to Year 3 expectations in Maths

Following the changes in the National Curriculum, we are providing some information to support you with your child's learning.

Please use this guide to support your child with their maths homework throughout the course of the year.

The following calculation methods have been approved by the government. Your child will be expected to confidently and independently use and apply the majority of these skills by the end of the school year.



Addition

Year 3

add numbers with up to three digits, using formal written methods of columnar addition and subtraction

$$235 + 342$$

$$\begin{array}{r} 200 + 30 + 5 \\ 300 + 40 + 2 \\ \hline 500 + 70 + 7 \end{array}$$

crossing 10s barrier (units only)

$$\begin{array}{r} 224 \\ + 537 \\ \hline 761 \end{array}$$

2 + 3 digit numbers not crossing 10s barrier

$$\begin{array}{r} 24 \\ + 33 \\ \hline 57 \end{array}$$

$$\begin{array}{r} 224 \\ + 533 \\ \hline 757 \end{array}$$

crossing 100s, 10s barrier (units + tens)

$$\begin{array}{r} 284 \\ + 567 \\ \hline 851 \end{array}$$

Subtraction

Year 3

subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction

Columnar method without exchange:

$$\begin{array}{r} 54 \\ - 23 \\ \hline 31 \end{array}$$

$$\begin{array}{r} 154 \\ - 23 \\ \hline 131 \end{array}$$

$$\begin{array}{r} 567 \\ - 314 \\ \hline 253 \end{array}$$

Multiplication

Year 3

Pupils develop reliable written methods for multiplication, starting with calculations of two-digit numbers by one-digit numbers and progressing to the formal written methods of short multiplication.

$$23 \times 5$$

$$\begin{array}{l} 3 \times 5 = 15 \\ 20 \times 5 = 100 \end{array}$$

$$100 + 15 = 115$$

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \\ \hline \end{array}$$

Division

Year 3

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

Pupils develop reliable written methods for division, starting with calculations of two-digit numbers by one-digit numbers and progressing to the formal written methods of short multiplication and division.

$$4 \overline{) 88}$$

$$4 \overline{) 49} \text{ r } 1$$

$$4 \overline{) 67} \text{ r } 3$$

Year 3 Expectations in Maths

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
- Compare and order numbers to 1000
- Identify, represent and estimate number using different representations
- Read numbers up to 1000 in numerals and words
- Write numbers up to 1000 in numerals and words
- Solve problems, including missing number problems, using number facts and place value

Addition and Subtraction

- Add and subtract mentally a 3 digit number and ones
- Add and subtract mentally a 3 digit number and tens
- Add and subtract mentally a 3 digit number and hundreds
- Add numbers with up to 3-digits using column method
- Subtract numbers with up to 3-digits using column method
- 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

- Derive and recall multiplication facts for 3,4, 8 multiplication tables
- Write and calculate mathematical statements for multiplication using tables they know, including 2d x 1d numbers, using mental methods and progressing to formal written methods
- Write and calculate mathematical statements for division using tables they know, including 2d x 1d numbers, using mental methods and progressing to formal written methods
- Solve problems, including missing number problems, involving multiplication, including integer scaling
- Solve problems, including missing number problems, involving division, including integer scaling
- Solve problems, including missing number problems, involving multiplication, correspondence problems in which n objects are connected to m objects
- Solve problems, including missing number problems, involving division, including correspondence problems in which n objects are connected to m objects
- Estimate the answer to a calculation and use inverse operations to check answer

Fractions

- Add fractions with a common denominator, e.g. $1/7 + 5/7$
- Subtract fractions with a common denominator
- Understand and count in tenths. Recognise that tenths arise from dividing an object into 10 equal parts and in dividing one digit numbers or quantities by ten.
- 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
- Compare and order unit fractions, and fractions with the same denominators
- Solve problems involving fractions

Measurement

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

Geometry (Properties and Position)

- Draw 2D shapes, make 3D shapes using modelling materials and recognise 3D shapes in different orientations and describe them
- Identify right angles. Recognise right angles as a description of a turn. Recognise that 2 right angles make a half turn, 3 make $\frac{3}{4}$ of a turn and 4 make a full turn.
- Recognise angles as a property of a shape
- Identify whether angles are greater or less than a right angle
- Identify horizontal and vertical lines
- Identify pairs of perpendicular and parallel lines

Statistics

- Interpret and present data using bar charts, pictograms and tables
- Solve one step questions using information presented in scaled bar charts, pictograms and tables
- Solve two step questions using information presented in scaled bar charts, pictograms and tables

