Aston Tower Community Primary School

Maths Medium Term Planning: Year 3

Year 3: Autumn 1

Week	Retrieval	Main Maths Objectives • Solve number and practical problems • Identify, represent and estimate numbers using different representations. • 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.
1	Recognise the place value of each digit in a three-digit number (hundreds, tens and ones). Read and write numbers to 1000 in numerals and words.	Recognise the place value of each digit in a three-digit number (hundreds, tens and ones). Compare and order numbers up to 1000 Read and write numbers to 1000 in numerals and words.
2	Compare and order numbers up to 1000 Recall and use multiplication and division facts for the 3, 4, and 8 multiplication tables.	Add numbers with up to three digits, using formal written methods of columnar addition.
3	Count from 0 in multiples of 4, 8, 50 and 100 Add and subtract numbers mentally including: a 3 digit/ones, a 3 digit/tens and a 3 digit/hundreds.	Subtract numbers with up to three digits, using formal written methods of columnar subtraction.
4	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 pupils know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
5	Find 10 or 100 more or less than a given number. Add and subtract numbers mentally including: a 3 digit/ones, a 3 digit/tens and a 3 digit/hundreds.	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.
6	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	Compare and order unit fractions and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve fractions
7	Assess and review	

Year 3: Autumn 2

Week	Retrieval	Main Maths Objectives • Solve number and practical problems • Identify, represent and estimate numbers using different representations. • 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.
1	Compare and order fractions. Add and subtract fractions.	Measure lengths (m/cm/mm), mass (kg/g) and volume/capacity (l/ml). Compare lengths (m/cm/mm), mass (g/kg) and volume/capacity (l/ml). Add and subtract lengths (m/cm/mm) mass (kg/g) and volume/capacity (l/ml)
2	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/a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year.	Tell and write the time from an analogue clock; 12-hour clocks. Tell and write the time from an analogue clock; 24-hour clocks. Tell and write the time from an analogue clock, including using Roman numerals from I to XII Compare durations of events, [e.g. to calculate the time taken by particular events or tasks].
3	Recall and use multiplication and division facts for the 3, 4, and 8 multiplication tables	Add and subtract amounts of money to give change, using both pounds (£) and pence (p) in practical contexts.
4	Identify horizontal, vertical lines and pairs of perpendicular and parallel lines. Add and subtract numbers mentally including: a 3 digit/ones, a 3 digit/tens and a 3 digit/hundreds.	Measure the perimeter of simple 2-D shapes. Draw 2-D shapes. Make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them.
5	Add and subtract amounts of money to give change, using both pounds (£) and pence (p) in practical contexts.	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 that angles are a property of shape or a description of a turn.
6	Find 10 or 100 more or less than a given number. Add and subtract numbers mentally including: a 3 digit/ones, a 3 digit/tens and a 3 digit/hundreds.	Interpret and present data using bar charts, pictograms and tables. Solve one-step and two step questions [e.g.: 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts, pictograms and tables
7	Assess and review	

Year 3: Spring 1

Week	Retrieval	Main Maths Objectives • Solve number and practical problems • Identify, represent and estimate numbers using different representations. • 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.
1	Recognise the place value of each digit in a three-digit number (hundreds, tens and ones). Read and write numbers to 1000 in numerals and words.	Add numbers with up to three digits, using formal written methods of columnar addition.
2	Compare and order numbers up to 1000 Recall and use multiplication and division facts for the 3, 4, and 8 multiplication tables.	Subtract numbers with up to three digits, using formal written methods of columnar subtraction.
3	Count from 0 in multiples of 4, 8, 50 and 100	Write and calculate mathematical statements for multiplication and division using the multiplication tables that pupils know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
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6	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	Compare and order unit fractions and fractions with the same denominators. Add and subtract fractions with the same denominator within one whole [e.g. $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] Solve problems that involve fractions
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Year 3: Spring 2

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2	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/a.m./p.m., morning, afternoon, noon and midnight. Know the number of seconds in a minute and the number of days in each month, year and leap year.	Tell and write the time from an analogue clock; 12-hour clocks. Tell and write the time from an analogue clock; 24-hour clocks. Tell and write the time from an analogue clock, including using Roman numerals from I to XII Compare durations of events, [e.g. to calculate the time taken by particular events or tasks].
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Year 3: Summer 1

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3	Count from 0 in multiples of 4, 8, 50 and 100	Write and calculate mathematical statements for multiplication and division using the multiplication tables that pupils know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods.
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