Maths
Medium Term
Planning:
Year 2

Year 2: Autumn 1

Week	Retrieval	**Main Maths Objectives** Use place value and number facts to solve problems. Identify, represent and estimate numbers using different representations, including the number line.
1	Read and write numbers to at least 100 in numerals and in words. Recall and use addition and subtraction facts to 20 fluently	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Recognise the place value of each digit in a two-digit number (tens and ones). Compare and order numbers from 0 up to 100; use <, > and = signs.

2	Recognise the place value of each digit in a two-digit number (tens and ones).
	
	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.
	
	Compare and order numbers from 0 up to 100; use <, > and = signs.
		Add and subtract numbers using concrete objects and pictorial representations including:
		
		    a two-digit number and ones
		    a two-digit number and tens
		    two two-digit numbers
		    adding three one-digit numbers.
		
		Solve problems with addition and subtraction using objects and pictorial representations, applying increasing knowledge.
		Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

3	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
	
	Add and subtract numbers.
	
	Compare and order numbers from 0 up to 100; use <, > and = signs.
		Add and subtract numbers using concrete objects and pictorial representations including:
		
		    a two-digit number and ones
		    a two-digit number and tens
		    two two-digit numbers
		    adding three one-digit numbers.
		
		Solve problems with addition and subtraction using objects and pictorial representations, applying increasing knowledge.
		Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.

4	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals ($=$) signs.
5	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals ($=$) signs.
6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Recognise the equivalence of 2/4 and 1/2 Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a length, shape, a set of objects or quantity. Write a simple fraction, e.g. ½ of 6 = 3
7	Assess and review	

Year 2: Autumn 2

Week	Retrieval	Main Maths Objectives
1	Recognise the place value of each digit in a two-digit number (tens and ones). Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.
2	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Choose and use appropriate standard units of measure.	Compare and sequence intervals of time. Know the number of minutes in an hour and the number of hours in a day. Tell the time to the nearest half hour. Tell and write the time to five minutes, including quarter past / to the hour and draw the hands on a clock face to show these times.
3	Know the number of minutes in an hour and the number of hours in a day. Compare and order numbers from 0 up to 100; use <, > and = signs.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
4	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Combine amounts to make a particular value for money.	Compare and sort common 2-D shapes and everyday objects. Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.
5	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Identify and describe the properties of 2-D shapes, including the number of sides and line symmetry in a vertical line.	Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.
7	Assess and review	

Year 2: Spring 1

Week	Retrieval	**Main Maths Objectives** Use place value and number facts to solve problems. Identify, represent and estimate numbers using different representations, including the number line.
1	Read and write numbers to at least 100 in numerals and in words. Recall and use addition and subtraction facts to 20 fluently	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Recognise the place value of each digit in a two-digit number (tens and ones). Compare and order numbers from 0 up to 100; use <, > and = signs.
2	Recognise the place value of each digit in a two-digit number (tens and ones). Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Compare and order numbers from 0 up to 100; use <, > and = signs.	Add and subtract numbers using concrete objects and pictorial representations including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers. Solve problems with addition and subtraction using objects and pictorial representations, applying increasing knowledge. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
3	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract numbers. Compare and order numbers from 0 up to 100; use <, > and = signs.	Add and subtract numbers using concrete objects and pictorial representations including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers. Solve problems with addition and subtraction using objects and pictorial representations, applying increasing knowledge. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
4	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals (=) signs.
5	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication ($\times$), division ($\div$) and equals (=) signs.
6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Recognise the equivalence of 2/4 and 1/2 Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a length, shape, a set of objects or quantity. Write a simple fraction, e.g. ½ of 6 = 3
7	Assess and review	

Year 2: Spring 2

Week	Retrieval	Main Maths Objectives
1	Compare and order lengths, mass, volume/capacity and record the results using >, < and = Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.
2	Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time.	Tell and write the time to five minutes, including quarter past / to the hour and draw the hands on a clock face to show these times.
3	Compare and order lengths, mass, volume/capacity and record the results using >, < and = Find different combinations of coins that equal the same amounts of money.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Find different combinations of coins that equal the same amounts of money. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
4	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Identify 2-D shapes on the surface of 3-D shapes, [e.g. a circle on a cylinder and a triangle on a pyramid]. Identify and describe the properties of 3-D shapes including the number of edges, vertices and faces. Compare and sort common 3-D shapes and everyday objects.
5	Compare and order numbers from 0 up to 100; use <, > and = signs. Identify 2D and 3D shapes using different properties including symmetry.	Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.
7	Assess and review	

		Year 2: Summer 1

Week	Retrieval	**Main Maths Objectives** Use place value and number facts to solve problems. Identify, represent and estimate numbers using different representations, including the number line.
1	Read and write numbers to at least 100 in numerals and in words. Recall and use addition and subtraction facts to 20 fluently	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Recognise the place value of each digit in a two-digit number (tens and ones). Compare and order numbers from 0 up to 100; use <, > and = signs.
2	Recognise the place value of each digit in a two-digit number (tens and ones). Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Compare and order numbers from 0 up to 100; use <, > and = signs.	Add and subtract numbers using concrete objects and pictorial representations including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers. Solve problems with addition and subtraction using objects and pictorial representations, applying increasing knowledge. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
3	Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100 Add and subtract numbers. Compare and order numbers from 0 up to 100; use <, > and = signs.	Add and subtract numbers using concrete objects and pictorial representations including: a two-digit number and ones a two-digit number and tens two two-digit numbers adding three one-digit numbers. Solve problems with addition and subtraction using objects and pictorial representations, applying increasing knowledge. Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems.
4	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.
5	Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward or backward. Recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100.	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs.
6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Recognise the equivalence of 2/4 and 1/2 Recognise, find, name and write fractions 1/3, ¼, 2/4 and ¾ of a length, shape, a set of objects or quantity. Write a simple fraction, e.g. ½ of 6 = 3
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1	Compare and order lengths, mass, volume/capacity and record the results using >, < and = Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels.
2	Know the number of minutes in an hour and the number of hours in a day. Identify 2D and 3D shapes by their properties including vertices and faces.	Tell and write the time to five minutes, including quarter past / to the hour and draw the hands on a clock face to show these times.
3	Compare and order lengths, mass, volume/capacity and record the results using >, < and = Find different combinations of coins that equal the same amounts of money.	Recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value. Solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change.
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5	Compare and order numbers from 0 up to 100; use <, > and = signs. Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Order and arrange combinations of mathematical objects in patterns and sequences. Use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).
6	Recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers.	Interpret and construct simple pictograms, tally charts, block diagrams and simple tables. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity. Ask and answer questions about totalling and comparing categorical data.
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