Year 2 Maths Medium Term Planning

Autumn

Unit A1	2 weeks	Number – Place Value, Addition and Subtraction
Weeks 1-2	**Learning Objectives**
	Strand: NUMBER – number and place value
	• Count in steps of 2, 3, 5 from 0 and in tens from any number, forward or backward
	• Recognise the place value of each digit in a two digit number (tens, ones)
	• Identify, represent and estimate numbers using different representations, including number lines
	• Compare and order numbers from 0 up to 100; use < > and = signs
	• Read and write numbers to at least 100 in numerals and in words
	• Use place value and number facts to solve problems
	Strand: NUMBER: Addition and Subtraction
	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods

Unit B1 | 3 weeks | Number – Addition and Subtraction; Geometry	
Weeks 3-5	**Learning Objectives**
	Strand: NUMBER: Addition and Subtraction
	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods
	• Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100
	• Add and subtract numbers using concrete objects, pictorial representations and mentally including: A two- digit number and ones A two-digit number and tens Two two digit numbers Adding three one-digit numbers
	• Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
	• Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
	Strand: Geometry
	• Identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line
	• Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
	• Identify 2D shapes on the surface of 3D shapes, for example a circle on a cylinder and a triangle on a pyramid
	• Compare and sort common 2D and 3D shapes and everyday objects

Unit C1 | 2 weeks | Number – Place Value; Statistics and Measurement

Weeks 6-7	**Learning Objectives**
	Strand: Number and Place Value
	• Compare and order numbers from 0 up to 100; use < > and = signs
	• Add and subtract numbers using concrete objects, pictorial representations and mentally including: A two- digit number and ones A two-digit number and tens Two two digit numbers Adding three one-digit numbers
	Strand: Measurement
	• Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (^{0}C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels
	• Compare and order lengths, mass, volume/ capacity and record the results using < > and =
	Strand: Statistics
	• 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

Unit D1 | 2 weeks | Number – place value, addition and subtraction; Measurement and Geometry

Weeks 8-9	Learning Objectives
	Strand: Number and place value
	• Read and write numbers to at least 100 in numerals and words
	• Use place value and number facts to solve problems
	Strand: Addition and subtraction
	• Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100
	• Add and subtract numbers using concrete objects, pictorial representations and mentally including: A two- digit number and ones A two-digit number and tens Two two digit numbers Adding three one-digit numbers
	Strand: Geometry
	• Order and arrange combinations of mathematical objects in patterns and sequences
	Strand: Measurement
	• 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

Year 2 Maths Medium Term Planning

Unit E1 | 3 weeks | Number – Place Value, Multiplication and Division; Geometry	
Weeks 10-12	**Learning Objectives**
	Strand: Number and place value
	• Count in steps of 2, 3, 5 from 0 and in tens from any number, forward or backward
	• Recognise the place value of each digit in a two digit number (tens, ones)
	• Identify, represent and estimate numbers using different representations, including number lines
	• Compare and order numbers from 0 up to 100; use < > and = signs
	• Read and write numbers to at least 100 in numerals and in words
	• Use place value and number facts to solve problems
	Strand: Geometry
	• Order and arrange combinations of mathematical objects in patterns and sequences
	Strand: Multiplication and Division
	• Recall and use multiplication and division facts for the 2,5,and 10 multiplication tables including recognising odd and even numbers
	• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication (x) and division (÷) and equals (=) signs

SPRING

Unit A2 | 2 weeks | Number – Place Value, Fractions, Multiplication and Division	
Weeks 1-2	**Learning Objectives**
	Strand: Number and place value
	• Count in steps of 2, 3, 5 from 0 and in tens from any number, forward or backward
	• Recognise the place value of each digit in a two digit number (tens, ones)
	• Identify, represent and estimate numbers using different representations, including number lines
	Strand:Fractions
	• Recognise, find, name and write fractions 1/3, ¼, 2/4, ¾ of a length, shape, set of objects or quantity
	• Write simple fractions eg ½ of 6 = 3 and recognise the equivalence of 2/4 and 1/2
	Strand: Multiplication and division
	• Recall and use multiplication and division facts for the 2,5,and 10 multiplication tables including recognising odd and even numbers
	• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication (x) and division (÷) and equals (=) signs
	• Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
	• Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in context

Unit B2 | 3 weeks | Number – Addition and Subtraction, Geometry	
Weeks 3-5	**Learning Objectives**
	Strand: NUMBER Addition and Subtraction
	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods
	• Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100
	• Add and subtract numbers using concrete objects, pictorial representations and mentally including: A two- digit number and ones A two-digit number and tens Two two digit numbers Adding three one-digit numbers
	• Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
	• Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
	Strand: Geometry
	• Identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line
	• Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
	• Identify 2D shapes on the surface of 3D shapes, for example a circle on a cylinder and a triangle on a pyramid
	• Compare and sort common 2D and 3D shapes and everyday objects

Unit C2 | 2 weeks | Statistics and measurement	
Weeks 6-7	**Learning Objectives**
	Strand: Measurement
	• 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
	• Know the number of minutes in an hour and the number of hours in a day
	Strand: Statistics
	• 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

Unit D2 | 2 weeks | Number – Addition and subtraction, fractions, measurement and geometry	
Weeks 8-9	**Learning Objectives**
	Strand: Number – Addition and Subtraction
	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods
	• Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100
	Strand: NUMBER Fractions
	• Recognise, find, name and write fractions 1/3, ¼, 2/4, ¾ of a length, shape, set of objects or quantity
	• Write simple fractions eg ½ of 6 = 3 and recognise the equivalence of 2/4 and 1/2
	Strand: Geometry
	• Use mathematical vocabulary to describe position, direction and movement including 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 anticlockwise)
	Strand: Measurement
	• 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

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Unit E2 | 3 weeks | Number – Addition and Subtraction, Place Value; Geometry

Weeks 10-12	**Learning Objectives**
	Strand: NUMBER Addition and Subtraction
	• Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
	• Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems
	Strand: Geometry
	• Order and arrange combinations of mathematical objects in patterns and sequences
	Strand: NUMBER Number and place value
	• Count in steps of 2, 3, 5 from 0 and in tens from any number, forward or backward
	• Recognise the place value of each digit in a two digit number (tens, ones)
	• Identify, represent and estimate numbers using different representations, including number lines
	• Compare and order numbers from 0 up to 100; use < > and = signs
	• Read and write numbers to at least 100 in numerals and in words
	• Use place value and number facts to solve problems

SUMMER

Unit A3 | 2 weeks | Number – Place Value, Addition and Subtraction	
Weeks 1-2	**Learning Objectives**
	Strand: NUMBER number and place value
	• Count in steps of 2, 3, 5 from 0 and in tens from any number, forward or backward
	• Recognise the place value of each digit in a two digit number (tens, ones)
	• Identify, represent and estimate numbers using different representations, including number lines
	• Compare and order numbers from 0 up to 100; use < > and = signs
	• Read and write numbers to at least 100 in numerals and in words
	• Use place value and number facts to solve problems
	Strand: Number addition and subtraction
	• Solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures applying their increasing knowledge of mental and written methods
	• Recall and use addition and subtraction facts to 20 fluently and derive and use related facts up to 100
	• Add and subtract numbers using concrete objects, pictorial representations and mentally including: A two- digit number and ones A two-digit number and tens Two two digit numbers Adding three one-digit numbers
	• Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot
	• Recognise and use the inverse relationship between addition and subtraction and use this to check calculations and missing number problems

Unit B3 | 3 weeks | Number – multiplication and division, Geometry, Measurement	
Weeks 3-5	**Learning Objectives**
	Strand: NUMBER Multiplication and Division
	• Recall and use multiplication and division facts for the 2,5,and 10 multiplication tables including recognising odd and even numbers
	• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication (x) and division (÷) and equals (=) signs
	• Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
	• Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in context
	Strand: Geometry
	• Use mathematical vocabulary to describe position, direction and movement including 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 anticlockwise)
	Strand: Measurement
	• Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (^{0}C); capacity (litres/ml) to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels
	• Compare and order lengths, mass, volume/ capacity and record the results using < > and =

Unit C3	2 weeks	Number – multiplication and division, Statistics and Measurement		
Weeks 6-7	**Learning Objectives**
	Strand: NUMBER multiplication and division
	• Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another cannot
	• Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in context
	Strand: Measurement
	• 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
	• Know the number of minutes in an hour and the number of hours in a day
	Strand: Statistics
	• 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

Unit D3 | 2 weeks | Number – Place Value, Multiplication and division, measurement and geometry	
Weeks 8-9	**Learning Objectives**
	Strand:NUMBER number and place value
	• Count in steps of 2,3,5 from 0 and in tens from any number forwards or backwards
	Strand: NUMBER multiplication and division
	• Recall and use multiplication and division facts for the 2,5,and 10 multiplication tables including recognising odd and even numbers
	• Calculate mathematical statements for multiplication and division within the multiplication tables and write them using multiplication (x) and division (÷) and equals (=) signs
	Strand: Geometry
	• Order and arrange combinations of mathematical objects in patterns and sequences
	Strand: Measurement
	• 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

Unit E3 | 3 weeks | Number - fractions, measurement and geometry	
Weeks 10-12	**Learning Objectives**
	Strand: NUMBER Fractions
	• Recognise, find, name and write fractions 1/3, ¼, 2/4, ¾ of a length, shape, set of objects or quantity
	• Write simple fractions eg ½ of 6 = 3 and recognise the equivalence of 2/4 and 1/2
	Strand: Geometry
	• Identify and describe the properties of 2D shapes, including the number of sides and symmetry in a vertical line
	• Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces
	• Identify 2D shapes on the surface of 3D shapes, for example a circle on a cylinder and a triangle on a pyramid
	• Compare and sort common 2D and 3D shapes and everyday objects
	Strand: Measurement
	• 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
	• Know the number of minutes in an hour and the number of hours in a day