

Year 2 MTP-Autumn Term

Power Maths Unit	Wk	National Curriculum Objective	Small Steps
Unit 1 Numbers to 100	1	<ul style="list-style-type: none"> Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number (Year 1) Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens (Year 1) Recognise the place value of each digit in a two-digit number (tens, ones) 	Numbers to 20 Count in 10s Count in 10s and 1, Recognise 10s and 1s, Build a number from 10s and 1s.
	2	<ul style="list-style-type: none"> Recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line 	Use a place value grid, Partition numbers to 100, Partition numbers flexibly within 100, Write numbers to 100 in expanded form 10s on a number line to 100
	3	<ul style="list-style-type: none"> Recognise the place value of each digit in a two-digit number (tens, ones) identify, represent and estimate numbers using different representations, including the number line compare and order numbers from 0 up to 100; use and = signs 	10s and 1s on a number line to 100 Estimate numbers on a number line Compare numbers (2), Order numbers
	4	<ul style="list-style-type: none"> count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward 	Count in 2, 5s, 10s, Count in 3s.
Unit 2 Addition and Subtraction	5	<ul style="list-style-type: none"> 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 	Fact families, Learn number bonds, Add and subtract two multiples of 10, Complements to 100 (10s) Add and subtract 1s
	6	<ul style="list-style-type: none"> add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones 	Add by making 10, Add using a number line, Add three 1 digit numbers, Add to the nearest 10, Add across 10
	7	<ul style="list-style-type: none"> add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and ones 	Subtract across 10, Subtract from 10, Subtract a 1 digit number from a 2 digit number across 10.
Unit 3 Addition and Subtraction (2)	1	<ul style="list-style-type: none"> count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and tens 	10 more 10 less Add and Subtract 10s, Add two 2 digit numbers (add 10s, add 1s), Add two 2 digit numbers (add more 10s then more 1s), Subtract a 2 digit number from a 2 digit number (not across 10)
	2	<ul style="list-style-type: none"> add and subtract numbers using concrete objects, pictorial representations, and mentally, including: a two-digit number and tens solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures 	Subtract a 2 digit number from a 2 digit number (across 10), How many more? How many fewer? Subtraction-find the difference, Compare number sentences, Missing number problems

	3	<ul style="list-style-type: none"> • solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures 	Mixed addition and Subtraction, Two step problems
Unit 4 Properties of Shape	4	<ul style="list-style-type: none"> • compare and sort common 2D and 3D shapes and everyday objects. • identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line 	Recognise 2D and 3D shapes Count sides on 2D shapes, Count vertices on 2D shapes, Draw 2D shapes, Lines of symmetry
	5	<ul style="list-style-type: none"> • compare and sort common 2-D and 3-D shapes and everyday objects • order and arrange combinations of mathematical objects in patterns and sequences • identify and describe the properties of 3D shapes, including the number of edges, vertices and faces 	Sort 2D shapes Make patterns with 2D shapes Count faces on 3D shapes, Count edges on 3D shapes, Count vertices on 3D shapes
	6	<ul style="list-style-type: none"> • compare and sort common 2D and 3D shapes and everyday objects • order and arrange combinations of mathematical objects in patterns and sequences 	Sort 3D shapes Make patterns with 3D shapes

Year 2 MTP-Spring Term

Power Maths Unit	Wk	National Curriculum Objective	Small Steps
Unit 5 Money	1	<ul style="list-style-type: none"> 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 	Count money (pence), Count money (notes and coins), Count money (pound and pence), Choose notes and coins Make the same amount
	2	<ul style="list-style-type: none"> solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value 	Compare amounts of money, Calculate with money, Find change, Two step problems Make £1
Unit 6 Multiplication and Division	3	<ul style="list-style-type: none"> solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs 	Recognise equal groups, Make equal groups, Add equal groups, Multiplication sentences The \times symbol
	4	calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (\times), division (\div) and equals (=) signs	Use arrays, Make equal groups (grouping), Make equal groups (sharing)
Unit 7 Multiplication And Division 2	5	<ul style="list-style-type: none"> recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers 	2 times table, Divide by 2, Doubling/halving, Odd/even numbers, 10 times table
	6	<ul style="list-style-type: none"> 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 	Divide by 10, 5 times table, Divide by 5 Bar modelling(grouping), Bar modelling(sharing)
Unit 8 Measurement (Length and Height)	1	<ul style="list-style-type: none"> choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}$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 $=$ solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures 	Measure in cm, Measure in m Compare lengths and heights, Order lengths and heights Four operations with lengths and heights.
	2	<ul style="list-style-type: none"> compare and order lengths, mass, volume/capacity and record the results using $>$, $<$ and $=$ results using $>$, $<$ and $=$ 2 B Measurement 9 Mass, capacity and temperature 2 Measure in grams choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature ($^{\circ}$C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels 	Compare mass, Compare volume and capacity Measure in g, Measure in kg, Measure in ml
Unit 9 Measurement (Mass, Capacity, Temp)			

	3	•results using >, < and = 2B Measurement 9 Mass, capacity and temperature 2 Measure in grams 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	Measure in l, Measure temperature using thermometers, Read thermometers
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Year 2 MTP-Summer Term

Power Maths Unit	Wk	National Curriculum Objective	Small Steps
Unit 10 Statistics	1	<ul style="list-style-type: none"> 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 	Make tally charts, Tables, Block Diagrams, Draw pictograms (1-1) Interpret pictograms (1-1)
	2	<ul style="list-style-type: none"> 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 	Draw pictograms (2,5,10) Interpret pictograms (2,5,10)
Unit 11 Fractions	3	<ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1) 	Introducing parts and wholes, Equal and unequal parts, Recognise a half, Find a half, Recognise a quarter
	4	<ul style="list-style-type: none"> Recognise, find and name a half as one of two equal parts of an object, shape or quantity (Year 1) recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity write simple fractions for example, $\frac{1}{2}$ of 6 = 3 and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$. 	Find a quarter, Thirds, Find the whole Unit and non-unit fractions, Recognise the equivalence of 1 half and 2 quarters
	5	<ul style="list-style-type: none"> recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity Non-statutory guidance: Pupils should count in fractions up to 10, starting from any number and using the $\frac{1}{2}$ and $\frac{2}{4}$ equivalence on the number line (for example, $1\frac{1}{4}$, $1\frac{2}{4}$ (or $1\frac{1}{2}$), $1\frac{3}{4}$, 2). 	Recognise $\frac{3}{4}$ Count in fractions up to a whole
Unit 12 Geometry And Direc	1	<ul style="list-style-type: none"> 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). 	Language of position, Describe movement, Describe turns, Describe movement and turns, Shape patterns with turns
Unit 13 Time	2	<ul style="list-style-type: none"> tell the time to the hour and half past the hour and draw the hands on a clock face to show these times (Year 1) 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 	O clock and half past Quarter past/to, Tell the time to 5mins Minutes in an hour, Hours in a day
Unit 14 Addition and Subtractio	3	<ul style="list-style-type: none"> use place value and number facts to solve problems recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems. 	My way your way, Using number facts, Using 100 square, Getting started Missing numbers

	4	<ul style="list-style-type: none"> • use place value and number facts to solve problems • solve problems with addition and subtraction: using concrete objects and pictorial representations, including those involving numbers, quantities and measures • solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts. 	Mental addition and subtraction (2), Solving problems (addition and subtraction) Efficient subtraction Solving problems (multiplication and division)
	5	<ul style="list-style-type: none"> • use place value and number facts to solve problems 	Solving problems using all four operations