BILSTON CHURCH OF ENGLAND PRIMARY



MEDIUM TERM PLANNING

Subject	Year Group	Term
Maths	2	Autumn

Topic	National	Power Maths Unit	NCETM Professional	Ready to
	Curriculum		development documents	progress
	Ob jectives			Criteria
Number and Place Value (approximate duration 17 days)	 Read and write numbers to at least IOO in numerals and in words. Identify, represent and estimate numbers using different representations, including the number line 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 O up to IOO; use>,< and = signs. 	 Power Maths Unit T tens ones place value grid partition more fewer fewest greatest smallest 	See Year Spine for revision points	 2NPV-I Recognise the place value of each digit in two-digit numbers, and compose and decompose twodigit numbers using standard and non-standard partitioning. 2NPV-2 Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10.

	 Count in steps of 2, 3, and 5 from 0, and in tens from any number, forward and backward. Becall and use 	• Power Maths unit 2	Spine	• 7NE_I Secure
Addition and Subtraction (approximate duration 13 days)	 Nechai unit use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100. Show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot. Solve problems with addition and subtraction: - using concrete ob jects and pictorial representations, including those involving numbers, quantities and measures - applying their increasing knowledge of mental and written methods. Add and subtract numbers using concrete ob jects, pictorial representations, and mentally, including: - a two-digit number and ones - a two- digit number and tens - two two- digit numbers - 	add subtract difference sum fact family number sentence total number bonds multiples plus minus	<pre>I.II Addition and subtraction: bridging IO 'There are, and Altogether there are' Use a stem sentence with the structure: 'First, then, then, now' ' plus is equal to ten, then ten plus is equal to' 'First I partition the: plus is equal to' 'Then plus is equal to ten' 'and ten plus is equal to ten' 'and ten plus is equal to' I.12 Subtraction as a difference I.13 Addition and subtraction: two digit and single digit numbers ' is one more than is equal to plus one plus one is equal to' ' is one less than minus one is The difference between and is one.'</pre>	 21 VI – 1 Secure fluency in addition and subtraction facts within IO, through continued practice. 2AS–I Add and subtract across IO.

	adding three one- digit numbers.		<pre>'I know that plus is equal to ' (single-digit fact) 'so plus is equal to' (related two-digit plus single-digit calculation) 'I know that minus is equal to' (single-digit fact) 'so minus is equal to' (related two-digit minus single-digit calculation)</pre>	
Addition and Subtraction (approximate auration 12 days)	 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. 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. 	 Power Maths Unit 3 total tens ones subtract difference 10 more 10 less bar model represent 	Spine I I.I.3 Addition and subtraction: two diqit and single diqit numbers 'I know that minus is equal to' (single-digit fact) 'so minus is equal to' (related two-digit minus single-digit calculation) 'I know that plus is equal to ' (single-digit fact) 'so plus is equal to' (related two-digit plus single-digit calculation) ' tens and ones, plus tens, is equal to tens and ones.'	 2AS-2 Recognise the subtraction structure of difference and answer questions of the form, "How many more?". 2AS-3 Add and subtract within IOO by applying related one- digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. 2AS-4 Add and subtract within IOO by applying related one-

	T.14 T.13 Addition two digit and mi	, and subtraction: Iltiples of ten	digit addition and
	'Ten more than	is . is ten	subtraction facts: add
	more than'		and subtract
	'Ten less than	is is ten	digit numbers.
	less than'		5
	' is one more th	an is	
	equal to plus o	ne plus one is	
	·is one less tha	nminus	
	one is The diff	erence between	
	and is one.	'	
	'I know that p	lus is equal to	
	'	tone is aqual	
	to tens.'	tens is equal	
	to .'	linus is equal	
	'So, tens minu	ıs tens is equal	
	to <u>tens.</u> '		
	'One part is ten, t	the other part is	
	, and the who	le is'	
	'This can be reco	rded as ten plus	
	eaual to	r as plus ten is	
	tone and	anas nus tans	
	is equal toten	is and <u>ones</u> .'	
	'First I partition t	heinto	
	and, and the	into and	
	(partitioning the s	two-digit	
	· plus is ea	qual to'	
	(addition of the to	ens) s equal to service servic	
	(addition of the o	nes)	
	'and plus	is equal to	
	(addition of the to	otals of tens and	
	ones) 'So العا م	is equal to .'	
		·	

Properties of Shapes (approximate duration 12 days)	 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. Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces. 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. 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. Identify 2D shapes on the surface of 3D shapes, (for example, a circle on a cylinder and a triangle on a pyramid). 	pentagon polygon prism quadrilateral hexagon hemisphere symmetry symmetrical vertex vertices edge side face line of symmetry curved surface	 20-10se precise language to describe the properties of 2D and 3D shapes, and compare shapes by reasoning about similarities and differences in properties.

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Subject	Year Group	Term
Maths	2	Spring

Topic	• National Curriculum Objectives	Power Maths Unit	 NCE IM Protessional development documents 	 Ready to progress Criteria
Measure	 Recognise and use symbols for pounds (£) 	Power Maths Unit 5		•
Money	and pence (p); combine amounts to	pounds (f) coins notes		
(duration approximatel y 10 days)	 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. 	pence (p) change		



problems in		
contexts.		
Recall and use	2.4 Times tables: aroups of 10 and 5.	
multiplication	And factors of O and I	
and division		
facts for the	' is a factor.'	
2, 5 and 10	' is a factor. 'The product of and is '	
multiplication	' is the product of and .'	
tables,		
including	2.5 Commutativity (parts 2) Doubling	
recognising	and halving	
odd and even	Use the following stem sentence	
numbers.	(algebraic terms for teachers only): '_a_	
•	times <u>b</u> can represent <u>a</u> groups of	
	<u></u> . It can also represent <u></u> groups of a (or ab_times).'	
	sentence: 'If there are equal	
	groups, we can use the times	
	-	
	is a factor, we can use the	
	times table.	
	There are two groups of	
	'This is the same as double .'	
	Double is soughts /	
	Double is equal to	
	'Ten is double five, so <u>tens</u> is	
	doublefives.'	
	'Five is half of ten, so fives is half	

			'Factor times factor is equal to the product.' 'The product is equal to factor times factor.'	
Multiplication And Division (duration approximatel y 10 days)	 mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs. Solve problems involving multiplication and division, using materials, arrays, repeated addition, mental. 	divide (÷) division (÷) share group odd even times-table	 2.2 Structures: multiplication representing equal groups 'There are equal groups of' 'There are in each group.' 'There are groups of' 2.3 Times tables: groups of 2 and commutativity (part 1) 'Factor times factor is equal to the product.' 	Relate grouping problems where the number of groups is unknown to multiplicatio n equations with a missing factor, and to division equations (quotitive division).
	 methods, and multiplication and division facts, including problems in contexts. Recall and use multiplication and division facts for the 		'The product is equal to factor times factor.'	

	2, 5 and 10 multiplication		2.4 Times tables: groups of 10 and 5.
	tables, including		And factors of U and I
	and even		' is a factor.'
	riumbers		' is a factor.'
			'The product of and is'
			' is the product of and'
			2.5 Commutativity (parts 2) Doubling and halving
			'There are two groups of'
			'There are, two times.' 'This is the same as double'
			sentence: 'If there are equal
			table.'
			'Double is equal to'
Measure	 Choose and use appropriate 	Power Maths unit 8	•
l anath and	standard units		
Height	and measure	length centimetres cm	
(duration	in any	metres m longer shorter	
5 days)	(m/cm); mass	inedes in tonger shorter	
	(kg/g); temperature	metre sticks height width	
	(°C); capacity (litres/ml) to	compare distance	
	the nearest	compute distance	
	unit, using		
	thermometers		

	and measuring		
	• Compare		
	and order		
	lengths, mass,		
	y and record		
	the results		
	using >, < ana =.		
	 Solve problems with addition 		
	and		
	subtraction: -		
	objects and		
	pictorial		
	including those		
	involving		
	numbers, avantities and		
	measures –		
	applying their		
	knowledge of		
	mental and		
	methods.		
NA .	Compare,		•
Neasure	solve practical	Power Maths unit 9	
Weight,	problems for: -	mass balance weighing scales	
volume,	lengths and heights (for	······	
capacitu and	example, long/short	grams, g kilograms, kg	
temperature (duration	longer/shorter, tall/short.	litres, l millilitres, ml volume capacity	
approximately	double/half) – mass/weight	temperature thermometer	
c ungs,	(for example,	degrees Celsius °C estimate	
	heavier than.	degrees celsius, e estimate	
	lighter than) -	approximation	
	volume (for		
	example,		
	more than, less		
	than, half,		

	halt tull.		
	quarter) -		
	tune (for		
	urrie (jor		
	example,		
	quicker,		
	stower, earlier,		
	later)		
	 Compare 		
	and order		
	lengths, mass,		
	volume/capacit		
	u and record		
	the maculto		
	the results		
	using >, < ana		
	=.		
	Choose and		
	use appropriate		
	standard units		
	to actimate		
	io estimate		
	ana measure		
	length/height		
	iņ āny 👘		
	direction		
	(m/cm): mass		
	(ka/a)		
	temperature		
	(it is a final to be		
	(ilires/mi) io		
	the nearest		
	appropriate		
	uhit, 'using		
	rulers scales		
	thermometers		
	and measuring		
	vaccale		
	VESSELS.		
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Subject	Year Ciroup	Term
Maths	2	Summer

Topic	• National Curriculum Objectives	• Power Maths Unit	NCE IN Protessional development documents	 Ready to progress Criteria
Fractions (approximately 3 weeks)	 Recognise, find, name and write fractions 1 3 , 1 4 , 2 4 and 3 4 of a length, shape, set of objects or quantity. Write simple fractions for example, 1 2 of 6 = 3 and recognise the equivalence of 2 4 and 1 2. 	 Power Maths IO half (¹/₂) quarter (¹/₄) whole third (¹/₃) eqivalent equal part numerator denominator fraction bar non-unit fraction 		•
Measure Time (approximately 2 weeks)	 Measure and begin to record the following: - lengths and heights - mass/weight - capacity and volume - time (hours, minutes, seconds). 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. 	 Power Maths unit II o'clock half past quarter past quarter to minute hand hour hand duration 	•	•

	 Know the number of minutes in an hour and the number of hours in a day. Compare and sequence intervals of time Compare durations of events (for example to calculate the time taken by particular events or tasks). 			
Statistics	 Interpret and construct simple pictograms, tally sharts block diagrams 	• Power Maths unit 12	•	•
(approximately I	and simple tables.			
weeks)	 Ask and answer simple questions by counting the number of chinese 	tally chart pictogram		
	the number of objects in each category and sorting the categories by quantity. • Ask and answer questions about totalling and comparing categorical data.	key		
Position and	 Use mathematical vocabulary to describe 	• Power Maths unit II	•	•
Direction	position, direction and movement, including	clockwise anticlockwise forwards		
(approximately 2	line and distinguishing	backwards left right middle		
weeks)	turn and in terms of right angles for	turn half turn quarter turn		
	quarter, half and three-guarter turns			
	 (clockwise and anticlockwise). Order and arrange combinations of mathematical objects in patterns and sequences. 	three-quarter turn		