Year 1 Spring Term

Week s	Key knowledge	Previous experience (NCETM Guidance) Support gaps in learning	National Curriculum statement	Links to PD Materials from NCETM to support subject knowledge and small steps
Weeks 1 & 2	Numbers to 40 (counting, reading and writing) Continuing to work on number structures Promoting the number sense arithmetic e.g 8 + 4 = 8 + 2 + 2 Doubles and near doubles 7 + 8 e.g double the smaller number and add 1. Missing number problems using bar model to expose the structure Understanding number patterns	Begin to develop a sense of the number system by verbally counting forward to and beyond 20, pausing at each multiple of 10. Understand that larger numbers are further along the track. Knows how to compare sets of objects up to 10 in different contexts, considering size and difference	To count, read and write numbers to 100 in numerals Count in multiples of 2's, 5's and 10's To represent and use number bonds and related subtraction facts within 20. To add and subtract one-digit and two-digit numbers to 20, including zero. To solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems.	1.8 Composition of numbers: multiples of 10 up to 100 Teaching point 1: One ten is equivalent to ten ones. Teaching point 2: Multiples of ten can be represented using their names or using numerals. We can count in multiples of ten. Teaching point 3: Knowledge of the 0–10 number line can be used to estimate the position of multiples of ten on a 0–100 number line. Teaching point 4: Adding ten to a multiple of ten gives the next multiple of ten; subtracting ten from a multiple of ten gives the previous multiple of ten.

Weeks 3	Solving word problems (addition and subtraction) Develop use visual models and own representations to solve problems Use bar modelling as a strategy for solving word problems. Using number bonds and simple bars to represent word problems Number comparison, specifically looking at how many more or how many fewer/less. Develop understanding on when to add or when to subtract and decide whether to add or subtract based on the question Be able to add/ subtract numbers to 20. Use number bond diagrams (part, whole model) to add and subtract. Use concrete materials to add and subtract. Use pictures to add and subtract. Use a number bond diagram to break apart numbers according to the context of the problem. Draw pictures to solve word problems. Use the guess-and-check method to solve word problems. Use abstract notation to solve word problems. Create a number sentence from a word problem. Use a 100-square to compare numbers. Use a number line to compare numbers	Begin to experience partitioning and combining numbers within 10. Devise and record number stories, using pictures, numbers and symbols (such as arrows). Develop fluency in addition and subtraction facts within 10. Knows how to automatically recall number bonds for numbers 0-5 and for 10, including corresponding partitioning facts.	Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Add and subtract 1-digit and 2-digit numbers to 20, including zero. Represent and use number bonds and related subtraction facts within 20. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs. Given a number, identify one more and one less. Solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems	 1.8 Composition of numbers: multiples of 10 up to 100 Teaching point 5: Known facts for the numbers within ten can be used to add and subtract in multiples of ten by unitising. Recap: 1.5 Addition and subtraction strategies within 10 1.6 Augmentation and reduction 1.7 Addition and subtraction strategies within 10 1.1 Comparison of quantities and measures TP2 & 3
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	Multiplication & Division Grouping and sharing	Distribute items fairly, for example, put 3	To solve one-step problems involving multiplication and division,	2.1 Counting, unitising and coins
	Understanding grouping and sharing as	marbles in each bag.	calculating the answer using	Teaching point 1: We can
	equal and non-equal groups	Recognise when items	concrete objects, pictorial	count efficiently by counting
	Constructing arrays practically using peg	are distributed	representations and arrays with the	in groups of two.
Weeks 4-	boards and counters.	unfairly.	support of the teacher.	
5	Using the sharing model as one for you, one	Can subitise to 5.		Teaching point 2: We can
	for you and one for you. Then moving onto	Skip count in 10s, 5s		count efficiently by counting
	grouping using twos, fives and tens.	and twos		in groups of ten.
	Make connections between arrays, number			
	patterns and counting in 2's, 5's and 10's			Teaching point 3: We can
				count efficiently by counting
				in groups of five.
	Money	Skip count in 10s, 5s and	Recognise and know the value of	2.1 Counting, unitising and
	Recognising coins and notes.	twos	different denominations of coins and	coins:
	Identify coins and notes through shape,	Can subitise to 5.	notes.	
	markings, size and colour.	Knows that money is		Teaching point 4: A coin has a value
	Understand the value of 1p and £1.	used to buy items		which is independent of its size, shape, colour or mass.
	Understand that silver coins and copper coins			snape, colour or mass.
	are not the same Understand that the size of the coin doesn't			Teaching point 5: The number of
Week	denote its value			coins in a set is different from the
6&7	Identify all of the coins using pictures and			value of the coins in a set; knowledge of counting in groups of two, five or
	concrete materials.			ten can be used to work out the
	Describe the features of the coins including			value of a set of identical low-
	colour, shape and size.			denomination coins.
	Tell the value of the coins by looking at the			Teaching point 6: Knowledge of
	markings on them.			counting in groups of two, five or ten
	Ŭ			can be used to work out how many
				identical low-denomination coins are needed to make a given value.
				needed to make a given value.

Week 11	Measurement: length and height Compare and describe using the appropriate mathematically vocabulary Practical application Non-standard unit into standard unit- use non-standard units and centimetre cubes to measure the lengths of items Understanding the concept of measuring/ weighting etc. and then the need for standardisation. Compare lengths and describe whether something is taller, longer, shorter or higher. Place objects they are comparing at the same starting point. Learn how to fairly measure two items for comparison using items and body parts, before moving on to measuring using a ruler. Understand the difference between length and height	To compare, describe and solve practical problems for: • lengths and heights (long/short, longer/shorter, tall/short, double/half) Compare, describe and solve practical problems for length and height, for example long/short, longer/shorter, tall/short, double/half. Measure and begin to record length and height.	MNP/ Powermaths 1.1 Comparison of quantities and measures
Opportu	Measurement: volume and capacity Compare and describe using the appropriate mathematically vocabulary Practical application Non-standard unit into standard unit Understanding the concept of measuring and then the need for standardisation. Comparing volume and capacity, using terms such as 'more than' and 'less than'. finding volume and capacity using non-standard units. Describing volume using the terms 'half' and 'quarter'.	Measure and begin to record the following: capacity and volume. Compare, describe and solve practical problems for: capacity and volume [for example, full/empty, more than, less than, half, half full, quarter].	MNP/ Powermaths