Mathematics Medium Term Plan (Linked to NCETM Curriculum Prioritisation Plans)

Autumn Term- Year 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Unit 1 (4 weeks) **Previous Reception experiences and counting within 100** Learning Outcome: to count within 100 in different ways Note: Further support and guidance can be found in NCETM Unit 1.9 (Composition of numbers 20 – 100) and in the DfE Ready to Progress Materials 1NPV-1 (pg 16-18)				**Unit 2** (6 weeks) **Comparison of quantities and part whole relationships** Explain that items can be compared using length and height Explain that items can be compared using weight/mass and volume/capacity Count a set of objects Compare sets of objects Use equality and inequality symbols to compare sets of objects Use equality and inequality symbols to compare expressions			

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Unit 2 (continued) **Comparison of quantities and part whole relationships** Explain what a whole is Explain that a whole can be split into parts Explain that a whole can represent a group of objects Identify a part of a whole group Explain what a part-whole model is Use a part-whole model to represent a whole partitioned into two parts Use a part-whole model to represent a whole partitioned into more than two parts			**Unit 3** (2 weeks) **Numbers 0 to 5** Explain that numbers can represent how many objects there are in a set Explain that ordinal numbers show a position and not a set of objects Partition numbers one to five in different ways Partition the numbers one to five in a systematic way Find a missing part when one part and the whole is known Show one more and one less than a number using representations. Pupils describe this accurately. Show one more and one less than a number using representations. Pupils describe this accurately. Use a bar model to represent a whole partitioned into two parts		Recap previous learning	**Termly Assessments - NFER**	Recap previous learning

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Spring Term- Year 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Unit 4 (3 weeks) **Recognise, compose, decompose and manipulate 2D and 3D shapes** Compose pattern block images Copy, extend and develop repeating and radiating pattern block patterns Compose tangram images Investigate tetromino and pentomino arrangements Investigate ways that four cubes can be composed into different 3D models Explore, discuss and compare 3D shapes Identify 2D shapes within 3D shapes Explore, discuss and compare 2D shapes Explore, discuss and identify circles and shapes that are not circles from shape cut-outs Explore, discuss and identify triangles and shapes that are not triangles from shape cut-outs Explore, discuss and identify rectangles (including squares) from shape cut-outs			**Unit 5** (3 weeks) **Numbers 0 to 10** Count a set of objects and match the spoken number to the written numeral and number name Represent the numbers 6 to 10 using a five and a bit structure Identify the whole and parts of the numbers 6 to 10 using the five and a bit structure Explore the numbers 6 to 10 using the part whole model and the five and a bit structure Explain where 6, 7, 8 and 9 lie on a number line Explain what odd and even numbers are and the difference between them Explain how even and odd numbers can be partitioned Partition numbers 6 to 10 in different ways Partition the numbers 6 to 10 in a systematic way Identify a missing part when a whole is partitioned into two parts			**Unit 6** (4 weeks) **Additive Structures** Combine two or more parts to make a whole Explain that addends can be represented in any order. This is called the commutative law Explain that the = sign can be used to show that the whole and the sum of the parts are equal (1) Explain that the = sign can be used to show that the whole and the sum of the parts are equal (2) Add parts to find the value of the whole and write the equation Find the missing addend in an equation Explain how even and odd numbers can be partitioned Make addition and subtraction stories and write equations to match	

Week 9	Week 10	Week 11	Week 12	Week 13			
Unit 6 **Additive Structures (ctd)** Represent 'first, then, now' stories with addition equations (1) Represent 'first, then, now' stories with addition equations (2) Represent 'first, then, now' stories with subtraction equations (1) Represent 'first, then, now' stories with subtraction equations (2) Represent different types of stories with subtraction calculations Make addition and subtraction stories, writing equations to match Work out the missing part of an addition story and equation if the other two parts are known Work out the missing part of a subtraction story and equation if the other two parts are known Explain that addition and subtraction are inverse operations (1) Explain that addition and subtraction are inverse operations (2) Use additive structures to think about addition and subtraction equations in different ways		**Unit 7** (2/3 weeks) **Addition and subtraction facts within 10** Explain that addition is commutative Find pairs of numbers to 10 (1) Find pairs of numbers to 10 (2) Add and subtract 1 from any number Explain what the difference is between consecutive numbers Explain what happens when 2 is added to or subtracted from odd and even numbers Explain what the difference is between consecutive odd and even numbers	**Termly Assessments - NFER**	**Unit 7** **Addition and subtraction facts within 10** Explain what happens when zero is added to or subtracted from a number Explain what happens when a number is added to or subtracted from itself Double numbers and explain what doubling means Halve numbers and explain what halving means Use knowledge of doubles and halves to calculate near doubles and halves Represent different types of stories with subtraction calculations Use knowledge and strategies to add 5 and 3 and 6 and 3		

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Summer Term- Year 1

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7
Unit 8 (4 weeks) **Numbers 0 to 20** Explain that the digits in the numbers 11 to 19 express quantity Explain that the digits in the numbers 11 to 19 express position on a number line Identify the quantity shown in a representation of numbers 11 to 19 Use knowledge of '10 and a bit' to solve problems Use knowledge of '10 and a bit' to solve problems Explore odd and even numbers within 20 Double the numbers 6 to 9 and halve the result, explaining what doubling and halving is Use knowledge of addition facts within 10 to add within 20 Use knowledge of subtraction facts within 10 to subtract within 20 Use knowledge of addition and subtraction facts within 10 to add and subtract within 20 Measure one object with different non-standard measures and record outcomes Measure items using individual cm cubes (Dienes) Measure length from zero cm using a ruler Estimate length in cm Estimate length, measure length and record these values in a table				**Unit 9** (5 weeks) **Unitising and coin recognition** Count efficiently in groups of two Count efficiently in groups of ten Count efficiently in group of five Count efficiently by counting in groups of two, five and ten Explain the value of a 1p coin in pence Recognise and explain the value of 2p, 5p and 10p coins Explain that a single coin can be worth several pennies Use knowledge of the value of coins to solve problems		**Termly Assessments - NFER**

Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	
Unit 9 **Unitising and coin recognition** Calculate the total value of the coins in a set of 2p coins Calculate the total value of the coins in a set of 5p coins Calculate the total value of the coins in a set of 10p coins Compare sets of 2p, 5p and 10p coins Relate what they have learnt to a real-life context Work out how many coins are needed to make a value of 10p Work out how many coins are needed to make a total value of 20p Use knowledge of the value of coins to solve problems			**Unit 10** (1 week) **Position and Direction** Guidance and support can be found at https://www.ncetm.org.uk/classroom-resources/cp-year-1-unit-10-position-and-direction-2-1-1/	**Unit 11** (2 weeks) **Time** Guidance and support can be found at https://www.ncetm.org.uk/classroom-resources/cp-year-1-unit-11-time/		

Year 1 Yearly Overview (Linked to NCETM Curriculum Prioritisation Materials)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15
Autumn	**NCETM Unit 1** Previous Reception experiences and counting within 100				**NCETM Unit 2** Comparison of quantities						**NCETM Unit 3** Number 0 to 5		Consolidation	**Assessment**	Consolidation
Spring	**NCETM Unit 4** Recognise, compose, decompose and manipulate 2D and 3D shapes			**NCETM Unit 5** Numbers 0 to 10			**NCETM Unit 6** Additive Structures				**NCETM Unit 7** Addition and Subtraction within 10	**Assessment**	**NCETM Unit 7 ctd**		
Summer	**NCETM Unit 8** Numbers 0 to 20				**NCETM Unit 9** Unitising and coin recognition		**Assessment**	**NCETM Unit 9 ctd** Unitising and coin recognition			**NCETM Unit 10** Position and Direction	**NCETM Unit 11** Time			