

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



Autumn Term- Year 3

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
<p><i>(3 days)</i></p> <p>Revisit place value of 2 -digit numbers using bar model/ part-whole representations</p>	<p>Unit 1 (2 weeks)</p> <p>Adding and Subtracting across 10</p> <p>Add 3 addends</p> <p>Use a ‘First.. Then... Now” story to add 3 addends</p> <p>Explain that addends can be added in any order</p> <p>Add 3 addends efficiently</p> <p>Add 3 addends efficiently by finding two addends that total 10</p> <p>Add two numbers that bridge through 10</p> <p>Subtract two numbers that bridge through 10</p>		<p>Unit 2 (10 weeks)</p> <p>Numbers to 1,000</p> <p>Explain that 100 is composed of ten tens and one hundred ones</p> <p>Explain that 100 is composed of 50s 25s and 20s</p> <p>Use known facts to find multiples of ten that compose 100</p> <p>Use known facts to find a two-digit number and a one- or two-digit number that compose 100</p> <p>Use known facts to find correct complements to 100</p> <p>Use known facts to find complements to 100 accurately and efficiently</p> <p>Represent a three-digit number which is a multiple of ten using their numerals and names</p> <p>Use place value knowledge to write addition and subtraction equations</p> <p>Bridge 100 by adding or subtracting in multiples of ten</p> <p>Use knowledge of addition and subtraction of multiples of ten bridging the hundreds boundary to solve problems</p> <p>Count across and on from 100</p> <p>Represent a three-digit number up to 199 in different ways</p> <p>Bridge 100 by adding or subtracting a single-digit number</p> <p>Pupils find ten more or ten less than a given number</p> <p>Pupils cross the hundreds boundary when adding and subtracting any two-digit multiple of ten</p>				<p>Unit 2 (ctd): Length</p> <p>Become familiar with a metre ruler (marked and unmarked intervals, 1 x 1m, 10 x 10cm, 100 x 1cm)</p> <p>Measure length and height from zero using whole metres and cm</p> <p>Measure length and height from 0 using cm</p> <p>Convert between m and cm (include whole m to cm, cm to whole m and cm and vice versa)</p> <p>Become familiar with a ruler in relation to cm and mm (marked and unmarked intervals, knowing 1cm = 10mm)</p> <p>Measure length from zero using mm / whole cm and mm</p> <p>Convert between cm and mm (include whole cm to mm, mm to whole cm and mm and vice versa)</p>
Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	
<p>Unit 2 (ctd)</p> <p>Use knowledge of place value to represent a three-digit number in different ways</p> <p>Represent a three-digit number up to 1000 in different ways</p> <p>Use knowledge of the additive relationship to solve problems</p> <p>Count in hundreds and tens on a number line</p> <p>Identify the previous, next and nearest multiple of 100 on a number line for a 3-digit multiple of ten</p> <p>Position three-digit numbers on number lines</p> <p>Estimate the position of three-digit numbers on unmarked number lines</p> <p>Compare one-, two- and three-digit numbers</p> <p>Compare two three-digit numbers</p> <p>Order sets of three-digit numbers</p> <p>Use known facts to add or subtract multiples of 100 within 1000</p> <p>Write a three-digit multiple of 10 as a multiplication equation</p> <p>Partition three-digit numbers in different ways</p> <p>Use known facts to solve problems involving partitioning numbers</p> <p>Use known facts to add or subtract to/from multiples of 100 in tens</p> <p>Use known facts to add or subtract to/from multiples of 100 in ones</p> <p>Add/subtract multiples of ten bridging 100</p> <p>Add/subtract to/from a three-digit number in ones bridging 100</p> <p>Find 10 more or less across any hundreds boundary</p> <p>Use knowledge of adding or subtracting to/from three-digit numbers to solve problems</p> <p>Count forwards and backwards in multiples of 2, 20, 5, 50 and 25</p> <p>Use knowledge of counting in multiples of 2, 20, 5, 50 and 25 to solve problems</p>						<p>Termly Assessments - NFER</p>	<p>Unit 2 (ctd): Mass and Volume</p> <p>Become familiar with different weighing scales up to 1kg (intervals of 100g, 200g, 250g and 500g)</p> <p>Become familiar with the tools to measure volume and capacity up to 1 litre (intervals of 100ml, 200ml, 250ml and 500ml)</p> <p>Measure mass from zero up to 1kg using grams</p> <p>Measure mass from zero above 1kg using whole kg and grams</p> <p>Measure volume from zero up to 1 litre using ml</p> <p>Measure volume from zero above 1 litre using whole litres and ml</p> <p>Estimate mass in grams and volume in ml</p> <p>Estimate a mass/volume, measure a mass/volume and record in a table</p>

Termly Assessments - NFER

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



Spring Term- Year 3

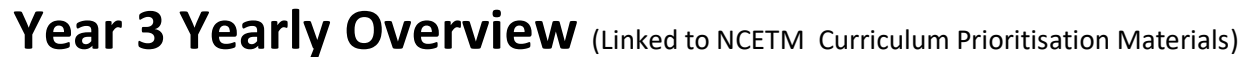
Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8
Unit 3 (2 weeks) Right Angles Rotate two lines around a fixed point to make different sized angles Draw triangles and quadrilaterals and identify vertices Learn that a right angle is a ‘square corner’ and identify them in the environment Learn that a rectangle is a 4-sided polygon with four right angles Learn that a square is a rectangle in which the four sides are equal length Cut rectangles and squares on the diagonal and investigate the shapes they make Join four right angles at a point using different right-angled polygons Investigate and draw other polygons with right angles		Unit 4 (4 weeks) Manipulating the additive relationship and securing mental calculation Add 3 addends Add two 3-digit numbers using adjusting Add a pair of 2- or 3-digit numbers using redistribution Subtract a pair of 2- or 3-digit numbers, bridging a multiple of 10, using partitioning Subtract a pair of 2-digit numbers, crossing a ten or hundreds boundary, by finding the difference between them Subtract a pair of three-digit multiples of 10 within 1000 by finding the difference between them Evaluate the efficiency of strategies for subtracting from a 3-digit number Explain why the order of addition and subtraction steps in a multi-step problem can be chosen Accurately and efficiently solve multi-step addition and subtraction problems Understand and can explain that both addition and subtraction equations can be used to describe the same additive relationship (2-digit numbers) Understand and can explain that both addition and subtraction equations can be used to describe the same additive relationship (3-digit numbers) Use knowledge of the additive relationship to rearrange equations Use knowledge of the additive relationship to identify what is known and what is unknown in an equation Use knowledge of the additive relationship to rearrange equations before solving				Unit 5 (2 weeks) Column Addition Identify the addends and the sum in column addition Use their knowledge of place value to correctly lay out column addition Add a pair of 2-digit numbers using column addition Add using column addition Use their knowledge of column addition to solve problems Add a pair of 2-digit numbers using column addition with regrouping in the ones column Add a pair of 2-digit numbers using column addition with regrouping in the tens column Add using column addition with regrouping Use known facts and strategies to accurately and efficiently calculate and check column addition Use their knowledge of column addition to solve problems	
Week 9	Week 10	Week 11	Week 12	Week 13			
Unit 6 (3 weeks) 2,4,8 Times Tables Represent counting in fours as the 4 times table Use knowledge of the 4 times table to solve problems Explain the relationship between adjacent multiples of four Explain the relationship between multiples of 2 and multiples of 4 Use knowledge of the relationships between the 2 and 4 times tables to solve problems Represent counting in eights as the 8 times table Explain the relationship between adjacent multiples of eight Explain the relationship between multiples of 4 and multiples of 8 Use knowledge of the relationships between the 4 and 8 times tables to solve problems Explain the relationship between multiples of 2, 4 and multiples of 8 Use knowledge of the relationships between the 2, 4 and 8 times tables to solve problems Use knowledge of the divisibility rules for divisors of 2 and 4 to solve problems Use knowledge of the divisibility rules for divisors of 8 to solve problems Scale known multiplication facts by 10 Scale division derived from multiplication facts by 10			Termly Assessments - NFER	Unit 7 (1 week) Column Subtraction Identify the minuend and the subtrahend in column subtraction Explain the column subtraction algorithm Subtract from a 2-digit number using column subtraction with exchanging from tens to ones Subtract from a 3-digit number using column subtraction with exchanging from hundreds to tens (1) Subtract from a 3-digit number using column subtraction with exchanging from hundreds to tens (2) Evaluate the efficiency of strategies for subtraction			

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



Summer Term- Year 3

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	
Unit 8 (5 weeks) Unit Fractions Identify a whole and the parts that make it up Explain why a part can only be defined when in relation to a whole Identify the number of equal or unequal parts in a whole Identify equal parts when they do not look the same (i) Explain the size of the part in relation to the whole Construct a whole when given a part and the number of parts Identify how many equal parts a whole has been divided into Use fraction notation to describe an equal part of the whole Represent a unit fractions in different ways Identify parts and wholes in different contexts (i) Identify parts and wholes in different contexts (ii) Identify equal parts when they do not look the same (ii) Compare and order unit fractions by looking at the denominator Identify when unit fractions cannot be compared Construct a whole when given one part and the fraction that it represents Use knowledge of the relationship between parts and wholes in unit fractions to solve problems Identify the whole, the number of equal parts and the size of each part as a unit fraction Quantify the number of items in each part and connect to the unit fraction operator Calculate the value of a part by using knowledge of division and division facts Calculate the value of a part by connecting knowledge of division and division facts with finding a fraction of a quantity Find fractions of quantities using knowledge of division facts with increasing fluency					Unit 9 (4 weeks) Non-Unit Fractions Explain that non-unit fractions are composed of more than one unit fraction Identify non-unit fractions Identify the number of equal or unequal parts in a whole Use knowledge of non-unit fractions to solve problems Use knowledge of unit fractions to find one whole Place fractions between 0 and 1 on a numberline	Termly Assessments - NFER	
Week 8	Week 9	Week 10	Week 11	Week 12	Week 13		
Unit 9 Non-Unit fractions(ctd) Use repeated addition of a unit fraction to form a non-unit fraction Use repeated addition of a unit fraction to form 1 Compare using knowledge of non-unit fractions equivalent to one Compare non-unit fractions with the same denominator Compare unit fractions Compare fractions with the same numerator Add up fractions with the same denominator Add on fractions with the same denominator Add fractions with the same denominator using a generalised rule Subtract fractions with the same denominator Identify the whole, the number of equal parts and the size of each part as a unit fraction Explain that addition and subtraction of fractions are inverse operations Subtract fractions from a whole by converting the whole to a fraction Represent a whole as a fraction in different ways and use this to solve problems involving subtraction			Unit 10 (2 weeks) Parallel and Perpendicular sides in polygons Make compound shapes by joining two polygons in different ways (same parts, different whole) Investigate different ways of composing and decomposing a polygon (same whole, different parts) Draw polygons on isometric paper Use geostrips to investigate quadrilaterals with and without parallel and perpendicular sides Make and draw compound shapes with and without parallel and perpendicular sides Learn to extend lines and sides to identify parallel and perpendicular lines Make and draw triangles on circular geoboards Make and draw quadrilaterals on circular geoboards Draw shapes with given properties on a range of geometric grids		Unit 11 (1 week) Time Follow link for NCETM guidance: https://www.ncetm.org.uk/classroom-resources/cp-year-3-unit-11-time/		



	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	Y2 Recap 2-digit numbers	NCETM Unit 1 Adding and subtracting across 10		NCETM Unit 2 Numbers to 1,000				Measures: Length and Height	NCETM Unit 2 (ctd) Numbers to 1,000					Assessment	Measures: Mass and Volume
Spring	NCETM Unit 3 Right Angles		NCETM Unit 4 Manipulating the additive relationship and securing mental calculation				NCETM Unit 5 Column Addition		NCETM Unit 6 2,4,8 Times Tables			Assessment	NCETM Unit 7 Column subtraction		
Summer	NCETM Unit 8 Unit Fractions					NCETM Unit 9 Non-unit fractions	Assessment	NCETM Unit 9 (ctd) Non-Unit Fractions			NCETM Unit 10 Parallel and Perpendicular sides in polygons		NCETM Unit 11 Time		
Note: ‘Constructing and presenting data’ is not covered by the prioritisation materials and ideally can be addressed in the foundation subjects in a relevant context such as science or geography.															