

Down Ampney Primary School LKS2 Overview Plan 2021.22

		Mathematics Strand	1	2	3	4	5	6	7	
Term 1	Year 3	NCETM Ready to Progress Criteria	<p>Know that 10 tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10; apply this to identify and work out how many 10s there are in other three-digit multiples of 10.</p> <p>Recognise the place value of each digit in three-digit numbers and compose and decompose three-digit numbers using standard and non-standard partitioning.</p> <p>Reason about the location of any three-digit number in the linear number system, including identifying the previous and next multiple of 100 and 10.</p>							Identify parallel and perpendicular sides.
		Core teaching Strand	Number and Place Value: 3-digit numbers							Geometry and Shape
		Mathematical Fluency	Doubling 2-digit numbers	Halving 2-digit numbers	Odd and even numbers	Use known facts of 10 to derive other facts	Find the difference between two numbers	Add multiples of ten to a 2-digit number	Subtract multiples of ten from a 2-digit number	
	Year 4	NCETM Strand	<p>Know that 10 hundreds are equivalent to 1 thousand, and that 1,000 is 10 times the size of 100; apply this to identify and work out how many 100s there are in other four-digit multiples of 100.</p> <p>Recognise the place value of each digit in four-digit numbers, and compose and decompose four-digit numbers using standard and non-standard partitioning.</p> <p>Reason about the location of any four-digit number in the linear number system, including identifying the previous and next multiple of 1,000 and 100, and rounding to the nearest of each.</p>						Identify regular polygons, including equilateral triangles and squares, as those in which the side-lengths are equal and the angles are equal. Find the perimeter of regular and irregular polygons.	
		Core Teaching Strand	Number and Place Value: 4-digit numbers						Geometry and Shape	
		Mathematical Fluency	Compare and order numbers up to 1000 and position them on a number line	Use place value to find 10 and 100 more or less than 3-digit numbers	Use rounding to add near multiples of 10	Use rounding to subtract a near multiple of 10	Partition the second number to add 10s then 1s including bridging	Partition the second number to subtract 10s then 1s including bridging	Subtract numbers by finding the difference between them	

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Term 2	Year 3	NCETM Strand	Identify right angles in 2D shapes presented in different orientations.	Recall multiplication facts, and corresponding division facts, in the 10, 5, 2, 4 and 8 multiplication tables, and recognise products in these multiplication tables as multiples of the corresponding number. Apply known multiplication and division facts to solve contextual problems with different structures, including quotative and partitive division.		Secure fluency in addition and subtraction facts that bridge 10, through continued practice. Calculate complements to 100. Manipulate the additive relationship: Understand the inverse relationship between addition and subtraction, and how both relate to the part-part-whole structure. Understand and use the commutative property of addition and understand the related property for subtraction.				
		Core Teaching Strand	Geometry and Shape	Multiplication and division			Mental methods: Addition		Mental methods: Subtraction	
		Mathematical Fluency	Use rounding to add near multiples of ten	Use rounding to subtract near multiples of ten	Add a single digit number to a 2-digit number using known facts	Subtract a single digit number from a 2-digit number using number facts	Compare and order numbers up to 1000 & position them on a number line	Find 10 and 100 more or less than any given number	Multiplication practise	
	Year 4	NCETM Strand	Recall multiplication and division facts up to 12x12 and recognise products in multiplication tables as multiples of the corresponding number. Manipulate multiplication and division equations and understand and apply the commutative property of multiplication.							
		Core Teaching Strand	Multiplication and Division			Mental methods: Addition		Mental methods: Subtraction		
		Mathematical Fluency	Multiply numbers by 10 using place value	Divide whole numbers by 10 using place value	Multiply numbers by a multiple of 10 using place value	Divide whole numbers by a multiple of 10 using place value	Use partitioning and known facts to multiply 2-digit by 1-digit numbers	Use partitioning and known facts to divide 2-digit by 1-digit numbers	Double and halve 3-digit numbers	

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Term 3	Year 3	NCETM Strand	Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts. Reason about the location of any fraction within 1 in the linear number system.		Add and subtract up to three-digit numbers using columnar methods.				
		Core Teaching Strand	Fractions		Written methods: Addition		Written methods: Subtraction		
		Mathematical Fluency	Partition the second number to subtract tens then ones	Add numbers by partitioning and recombining	Double 3- digit numbers		Halve 3-digit numbers		
	Year 4	NCETM Strand	Recall multiplication and division facts up to 12x12 and recognise products in multiplication tables as multiples of the corresponding number. Manipulate multiplication and division equations and understand and apply the commutative property of multiplication.						
		Core Teaching Strand	Multiplication and Division		Written methods: Addition		Written methods: Subtraction		
		Mathematical Fluency	Round numbers to the nearest 10.	Recall and use facts for the 6x table	Order numbers beyond 1000	Recall and use facts for the 7x table	Round numbers to the nearest 100.	Round numbers to the nearest 1000.	

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Term 4	Year 3	NCETM Strand	Apply known multiplication and division facts to solve contextual problems with different structures, including quotative and partitive division.			Divide 100 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in multiples of 100 with 2, 4, 5 and 10 equal parts.			
		Core Teaching Strand	Multiplication and division: written and mental methods			Measurement: Money		Measurement: Time	
		Mathematical Fluency	Use rounding to add near multiples of ten	Multiply numbers by 10 using place value	Use rounding to subtract near multiples of ten	Divide numbers by 10 using place value	Multiplication practise		
	Year 4	NCETM Strand	Solve division problems, with two-digit dividends and one-digit divisors, that involve remainders, and interpret remainders appropriately according to the context. Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size. Understand and apply the distributive property of multiplication.			Draw polygons, specified by coordinates in the first quadrant, and translate within the first quadrant.			
		Core Teaching Strand	Multiplication and division: written methods			Geometry: Properties of Shape			
		Mathematical Fluency	Choose appropriate methods to add	Double and halve numbers	Choose appropriate methods to subtract	Divide 3 digit numbers by 1 digit numbers	Multiplication practise		

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Term 5	Year 3	NCETM Strand		Find unit fractions of quantities using known division facts (multiplication tables fluency). Add and subtract fractions with the same denominator, within 1.				Draw polygons by joining marked points. Recognise right angles as a property of shape or a description of a turn and identify right angles in 2D shapes presented in different orientations.	
		Core Teaching Strand	Measurement: Time	Fractions: Calculating		Measurement: length, mass and capacity.		Geometry: Properties of shape and angles	
		Mathematical Fluency	Partition 3-digit numbers in different ways	Multiply by a multiple of 10 by using place value	Subtract numbers by finding the difference between them	Multiplication practise			
Year 4		NCETM Strand	Multiply and divide whole numbers by 10 and 100 (keeping to whole number quotients); understand this as equivalent to making a number 10 or 100 times the size. Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 100)			Reason about the location of mixed numbers in the linear number system. Convert mixed numbers to improper fractions and vice versa. Add and subtract improper and mixed fractions with the same denominator, including bridging whole numbers.			
		Core Teaching Strand	Decimals (Addition and Subtraction: Decimals)			Fractions			
		Mathematical Fluency	Use place value and known facts to multiply mentally	Multiply 3 digit numbers by 1 digit numbers; efficient methods	Order decimal numbers and position them on a number line	Round numbers with one dp to the nearest whole number	Multiplication practise		

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Term 6	Year 3	NCETM Strand	Draw polygons by joining marked points. Recognise right angles as a property of shape or a description of a turn and identify right angles in 2D shapes presented in different orientations.			Recap of core RTP objectives following assessments.				
		Core Teaching Strand	Geometry: Properties of shape and angles	Statistics		Whole year recap and preparation for Year 4				
		Mathematical Fluency	Add 3-digit numbers using appropriate mental strategies	Use partitioning and known facts to multiply 2-digit by 1-digit mentally	Subtract 3-digit numbers using appropriate mental strategies	Use partitioning and known facts to divide 2-digit by 1-digit mentally	Factor, Factor Product	Maths challenges		
	Year 4	NCETM Strand								
		Core Teaching Strand	Measurement: Time		Measurement: Perimeter and area	Geometry: Position and direction		Statistics		
		Mathematical Fluency	Use number facts to add	Divide whole numbers and decimals by 100	Find the difference between two numbers		Round and adjust to add numbers			