

Term

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Number and place value Number facts

Addition and subtraction

		20 Pupils become familiar with a ruler in relation to cm and mm (marked and
		unmarked intervals knowing Icm = 10mm)
		21 Pupils medsure length from zero using mm / whole cm and mm
		22 Pupils convert between cm and mm (include whole cm to mm mm to whole cm
		and mm and vice versa)
		23 Pupils estimate a length/height, measure a length/height and record in a table
		24 Pupils use knowledge of place value to represent a three-digit number in
		different ways
		25 Pupils represent a three-digit number up to 1000 in different ways
		26 Pupils use knowledge of the additive relationship to solve problems
		27 Pupils count in hundreds and tens on a number line
		28 Pupils identify the previous, next and nearest multiple of 100 on a number line
		for a three-digit multiples of ten
		29 Pupils position three-digit numbers on number lines
		30 Pupils estimate the position of three-digit numbers on unmarked number lines
		31 Pupils compare one-, two- and three-digit numbers
		32 Pupils compare two three-digit numbers
		33 Pupils order sets of three-digit numbers
		34 Pupils use known facts to add or subtract multiples of 100 within 1000
		35 Pupils write a three-digit multiple of 10 as a multiplication equation
		36 Pupils partition three-digit numbers in different ways
		37 Pupils use known facts to solve problems involving partitioning numbers
		38 Pupils use known facts to add or subtract to/from multiples of 100 in tens
		39 Pupils use known facts to add or subtract to/from multiples of 100 in ones
		40 Pupils add/subtract multiples of ten bridging 100
		41 Pupils add/subtract to/from a three-digit number in ones bridging 100
		42 Pupils find 10 more or less across any hundreds boundary
		43 Pupils use knowledge of adding or subtracting to/from three-digit numbers to
		solve problems
		44 Pupils count forwards and backwards in multiples of 2, 20, 5, 50 and 25
		45 Pupils use knowledge of counting in multiples of 2, 20, 5, 50 and 25 to solve
		problems
		46 Pupils become familiar with different weighing scales up to lkg (intervals of
		100g, 200g, 250g and 500g)
		47 Pupils become familiar with the tools to measure volume and capacity up to I
		litre (intervals of 100ml, 200ml, 250ml and 500ml)
		48 Pupils measure mass from zero up to Ikg using grams
		49 Pupils measure mass from zero above Ikg using whole kg and grams
		50 Pupils measure volume from zero up to I litre using ml

Autumn 2	Right angles	White Rose Summer Term Shape Unit (follow WR small steps, but NCETM further steps (see below) included to be taught) <u>https://www.ncetm.org.uk/classroom- resources/cp-year-3-unit-3-right- angles/</u>	2 weeks	 SI Pupils measure volume from zero above I litre using whole litres and ml 52 Pupils estimate mass in grams and volume in ml 53 Pupils estimate a mass/volume, measure a mass/volume and record in a table I Pupils recognise turns and angles 2 Pupils understand right angles (to include NCETM small steps:) Pupils learn that a right angle is a 'square corner' and identify them in the environment Pupils learn that a rectangle is a 'scuare corner' and identify angles Pupils learn that a rectangle is a 'scuare corner' and identify them in the environment Pupils learn that a rectangle is a 'scuare corner' and identify them in the sides are equal length Pupils cut rectangles and squares on the diagonal and investigate the shapes they make Pupils join four right angles at a point using different right-angled polygons Pupils investigate and draw other polygons with right angles 3 Pupils can compare angles
Autumn 2	Manipulating the additive relationship and securing mental calculation	NCETM - CP Unit 4 https://www.ncetmorg.uk/classroom- resources/cp-year-3-unit-4- manipulating-the-additive- relationship-and-securing-mental- calculation/	4 weeks	 I Pupils add two 3-digit numbers using partitioning 2 Pupils add two 3-digit numbers using adjusting 3 Pupils add a pair of 2- or 3-digit numbers using redistribution 4 Pupils subtract a pair of 2- or 3-digit numbers, bridging a multiple of IO, using partitioning 5 Pupils subtract a pair of 2-digit numbers, crossing a ten or hundreds boundary, by finding the difference between them 6 Pupils subtract a pair of three-digit multiples of IO within IOOO by finding the difference between them 7 Pupils evaluate the efficiency of strategies for subtracting from a 3-digit number 8 Pupils explain why the order of addition and subtraction steps in a multistep problem can be chosen 9 Pupils accurately and efficiently solve multi-step addition and subtraction equations can be used to describe the same additive relationship (2-digit numbers)

				 II Pupils understand and can explain that both addition and subtraction equations can be used to describe the same additive relationship (3-digit numbers) I2 Pupils use knowledge of the additive relationship to rearrange equations I3 Pupils use knowledge of the additive relationship to identify what is known and what is unknown in an equation I4 Pupils use knowledge of the additive relationship to rearrange equations
Autumn	Column	NCETM – CP Unit 5	2 weeks	I Pupils identify the addends and the sum in column addition
2 into	addition	https://www.ncetm.org.uk/classroom- resources/cp-year-3-upit-5-colump-addition/		addition
Spring I				3 Pupils add a pair of 2-digit numbers using column addition
				4 Pupils add using column addition
				5 Pupils use their knowledge of column addition to solve problems
				6 Pupils add a pair of 2-digit numbers using column addition with regrouping
				7 Pupils add a pair of 2-digit numbers using column addition with regrouping
				in the tens column
				8 Pupils add using column addition with regrouping
				9 Pupils use known facts and strategies to accurately and efficiently
				calculate and check column addition
				10 Pupils use their knowledge of column addition to solve problems
Spring I	2, 4 and 8	NCETM – CP Unit 6	3 weeks	I Pupils represent counting in fours as the 4 times table
	times tables	https://www.ncetm.org.uk/classroom-		2 Pupils use knowledge of the 4 times table to solve problems
		resources/cp-year-3-unit-6-2-4-8-times-		5 Fupils explain the relationship between adjacent multiples of four 4 Pupils explain the relationship between multiples of 2 and multiples of 4
		<u>Tables/</u>		5 Publis use knowledge of the relationships between the 2 and 4 times
				tables to solve problems
				6 Pupils represent counting in eights as the 8 times table
				7 Pupils explain the relationship between adjacent multiples of eight
				8 Pupils explain the relationship between multiples of 4 and multiples of 8
				Y Pupils use knowledge of the relationships between the 4 and 8 times
				IO Pupils explain the relationship between multiples of 2.4 and multiples of
				8

				 II Pupils use knowledge of the relationships between the 2, 4 and 8 times tables to solve problems I2 Pupils use knowledge of the divisibility rules for divisors of 2 and 4 to solve problems I3 Pupils use knowledge of the divisibility rules for divisors of 8 to solve problems I4 Pupils scale known multiplication facts by IO I5 Pupils scale division derived from multiplication facts by IO
Spring 2	Column subtraction	NCETM — CP Unit 7 https://www.ncetm.org.uk/classroom-	l week	l Pupils identify the minuend and the subtrahend in column subtraction 2 Pupils explain the column subtraction algorithm
		resources/cp-year-3-unit-7-column-		3 Pupils subtract from a 2-digit number using column subtraction with
		subtraction/		4 Pupils subtract from a 3-digit number using column subtraction with
				exchanging from hundreds to tens (1)
				5 Pupils subtract from a 3-digit number using column subtraction with
				6 Pubils evaluate the efficiency of strategies for subtraction
Spring	Unit	NCETM – CP Unit 8	5 weeks	I Pupils identify a whole and the parts that make it up
2 into	fractions	https://www.ncetm.org.uk/classroom-		2 Pupils explain why a part can only be defined when in relation to a whole
Summer		resources/cp-year-3-unit-8-unit-		3 Pupils identity the number of equal or unequal parts in a whole
		fractions/		5 Pupils latentity equal parts when they do not look the same (1)
				6 Pupils construct a whole when given a part and the number of parts
				7 Pupils identify how many equal parts a whole has been divided into
				8 Pupils use fraction notation to describe an equal part of the whole
				9 Pupils represent a unit fractions in different ways
				IO Pupils identify parts and wholes in different contexts (i)
				Il Pupils identify parts and wholes in different contexts (ii)
				12 Pupils identity equal parts when they do not look the same (1)
				14 Pupils identify when unit fractions cannot be compared
				15 Pupils construct a whole when given one part and the fraction that it
				represents
				16 Pupils use knowledge of the relationship between parts and wholes in unit
				fractions to solve problems

				 17 Pupils identify the whole, the number of equal parts and the size of each part as a unit fraction 18 Pupils quantify the number of items in each part and connect to the unit fraction operator 19 Pupils calculate the value of a part by using knowledge of division and division facts 20 Pupils calculate the value of a part by connecting knowledge of division and division facts with finding a fraction of a quantity 21 Pupils find fractions of quantities using knowledge of division facts with increasing fluency
Summer I	Non-unit fractions	https://www.ncetm.org.uk/classroom-	T weeks	fraction 2 Pupils identify non-unit fractions
		<u>resources/cp-year-3-unit-9-non-unit-</u> <u>fractions/</u>		 2 Pupils identify non-unit fractions 3 Pupils identify the number of equal or unequal parts in a whole 4 Pupils use knowledge of non-unit fractions to solve problems 5 Pupils use knowledge of unit fractions to find one whole 6 Pupils place fractions between 0 and 1 on a number line 7 Pupils use repeated addition of a unit fraction to form a non-unit fraction 8 Pupils use repeated addition of a unit fraction to form I 9 Pupils compare using knowledge of non-unit fractions equivalent to one 10 Pupils compare non-unit fractions with the same denominator 11 Pupils compare fractions with the same numerator 13 Pupils add up fractions with the same denominator 14 Pupils add on fractions with the same denominator 15 Pupils add fractions with the same denominator 15 Pupils ubtract fractions with the same denominator 16 Pupils ubtract fractions with the same denominator 17 Pupils identify the whole, the number of equal parts and the size of each part as a unit fraction 18 Pupils explain that addition and subtraction of fractions are inverse operations 19 Pupils ubtract fractions from a whole by converting the whole to a fraction 20 Pupils represent a whole as a fraction in different ways and use this to solve problems involving subtraction

Summer	Parallel and	White Rose Summer Term Shape	2 weeks	White Rose small steps:
	perpendicular	onit – secona part, right angles covered in Autumn (follow WR		2 Pupils can measure and draw accurately
	nolvaons and	small steps, but NCETM further		steps):
	3D shape	steps (see below) included to be taught)		 Pupils learn to extend lines and sides to identify parallel and perpendicular lines
		NCETM guidance		3 Pupils can recognise and describe 2D shapes (<i>to include NCETM small steps)</i> :
		 <u>https://www.ncetmorg.uk/classroom-</u> <u>resources/cp-year-3-unit-10-</u> parallel-and-perpendicular-sides-in- 		 Pupils make compound shapes by joining two polygons in different ways (same parts, different whole)
		polygons/		 Pupils investigate different ways of composing and decomposing a polygon (same whole, different parts)
				4 Pupils can draw polygons <i>(to include NCETM small steps)</i> :
				 Pupils draw polygons on isometric paper
				 Pupils use geostrips to investigate quadrilaterals with and without parallel and perpendicular sides
				 Pupils make and draw compound shapes with and without parallel and perpendicular sides
				 Pupils make and draw triangles on circular geoboards
				 Pupils make and draw quadrilaterals on circular geoboards
				• Pupils draw shapes with given properties on a range of geometric grids
				5 Pupils can recognise 3D shapes
				6 Pupils can make 3D shapes
Summer	Time	White Rose Summer Time Unit	l week	I Pupils can write and recognise Roman Numerals to 12
2		NCETM Guidance:		2 Pupils can tell the time to 5 minutes
		https://www.ncetmorg.uk/classroom-		3 Pupils can tell the time to the minute 4 Pupils can read the time on a digital clock
		resources/cp-year-3-unit-II-time/		5 Pupils can use am and p.m.
				6 Pupils know years, months and days
				7 Pupils can recognise days and hours
				8 Pupils can recognise hours and minutes, using start and end times

Assessment questions, linked to the DFE's Ready-to-Progress Criteria: <u>https://www.ncetm.org.uk/classroom-resources/cp-year-3-curriculum-map/</u>