

Christ the King Catholic Voluntary Academy Maths Medium Term Plan



Unit 2: Numbers to 1000 (L1-15)	NC Objectives and Ready to Progress	Advent 1: Weeks 3-5 - Small Steps/QFLs			Start Date: 18.09.23 (3 weeks)
	statements				
 Prior Learning: 2NPV-1 Place value in two-digit numbers: recognise the place value of each digit in two-digit numbers, and compose and decompose two-digit numbers using standard and non-standard partitioning. 2NPV-2 Two-digit numbers in the linear number system (number line): reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10. Year 2: 10x tables, 5x tables 	 3NPV-1 Equivalence of 10 hundreds and 1 thousand: 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. 3NPV-2 Place value in three-digit numbers: recognise the place value of each digit in three-digit numbers, and compose and decompose three-digit numbers using standard and nonstandard partitioning. 3NPV-3 Three-digit numbers in the linear number system (number line): 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. 3NPV-4 Reading scales with 2, 4, 5 or 10 intervals: 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. 3NF-3 Scaling number facts by 10: apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10), for example: 8 6 14 + = and 14 6 8 - = so 80 60 140 + = and 140 60 8 3AS-1 Calculate complements to 100 	Week 1Pre unit assessmentLesson 1: Can I explain which equal groups 100 is composed of? (1)100 square grid per child Base 10 dienes Metre sticks Printed sheets - holepunchedLesson 2: Can I explain 	Week 2 Lesson 6: <u>Can I use</u> <u>known facts to find</u> <u>complements to 100</u> <u>accurately and</u> <u>efficiently?</u> Printing - holepunched Laminated 100 squares Dienes - get the children to follow along with the concrete resources in time with your on-screen <u>animations</u> Lesson 7: <u>Can I</u> <u>represent three-digit</u> <u>multiples</u> of 10 using their <u>numerals and names?</u> Dienes Printing - holepunched Different representations printing - 1 each Place value chart up to 100s	Week 3 Lesson 11: Can I count across and on from 100? SHORT LESSON - verbal counting, no recording in books Print a 1-200 counting grid per child Use coins (£1 and 1p only) and dienes to aid verbal counting if needed Lesson 12: Can I represent a three-digit number up to 199 in different ways? Children will represent numbers in bar models, part whole models, number lines etc, and need to draw these themselves into their books. Model this under the visualiser first. Printing Rulers for accurate representations	Vocabulary Compose = make Equal Intervals (breaks on number line) Complement (two numbers that go together to make any power of 10 - 10, 100, 1000 etc) Addend (numbers in addition) Total / sum (addition answer) Minuend (large number) Subtrahend (smaller number that you subtract from the large number) Difference (answer in subtraction) Hundreds/tens/ones Partitioning Unitising (seeing a number as their unit value, e.g. 120 is 12 tens

P	Possible	misconceptions	Lesson 3: <u>Can I use</u>	Lesson 8: Can I use	Lesson 13: <u>Can I bridge</u>
		Avoid statements such as '100 has no tens or	known facts to find	<u>place value knowledge</u>	100 by adding or
		ones', since 100 is composed of ten 10s or 100	multiples of 10 that	to write	subtracting a single-
		ones. When finding complements to 100 (lessons 5 &	compose 100? (bonds to	addition and	digit number?
		6), children can often forget that the ones	<u>10)</u>	subtraction equations?	NO PRINTING FOR THIS
		digits make a 10, and so they will add in an extra	Multi-link cubes	Dienes	LESSON - they should
		10 in the 10s digit. This leaves them with an	Dienes base 10	Printing - holepunched	copy the equations down
		'extra 10' – remind them that the 10s digits only	Blank bar model templates		from the board and
		need to total 9 tens (90) because the ones will make a 10 on their own.	(ideally laminated)		complete neatly on their
	•	make a 10 on their own.	Whiteboards and pens		page.
	•	70 + 50 = 112 🔀	Printing and holepunched		100 squares laminated
		They can see the answer is 'bigger than	5		Dienes if needed
		one hundred' and can see the 'twelve'	Lesson 4: Can I use	Lesson 9: Can I	Lesson 14: Can I find
		but aren't sure how to bring those concepts together. Previous work on	known facts to identify	bridge 100 by adding	ten more or ten less
		unitising in tens (for example,	one-digit and two-digit	or subtracting	than a given number?
		associating 12 tens with 120) should	numbers that compose	multiples of 10?	Review straight into books
		help children to avoid this type of	100?	Dienes	
		mistake, but you will still need to look out for it.	<u>Optional - laminated bar</u>	Printing - holepunched	200 squares from previous
		Gattegno chart. As before, when	model templates		lessons
	•	referring to place value, avoid asking	Optional - number lines		printing
		questions such as 'How many tens are	(blank)		
		there in one hundred-and-four?' (for detailed explanation and exemplar	Optional - 100 squares		
		questions see step 3:4).	Printing - holepunched		
		Look out for children who write '10024'	Lesson 5: Can I use	Lesson 10: Can I use	Lesson 15: Can I add
		or '1004' to represent 124 or 104 respectively; work with them to link the	known facts to find the	my knowledge of	or subtract across the
		physical representations to the place-	correct complements to	addition	100s boundary from any
		value chart and emphasize the fact that	100?	and subtraction to	two-digit number in
		all 'hundreds numbers' have three digits.	<u>Whiteboards</u>	cross the hundreds	tens?
		thee digits.	Printing - holepunched	boundary to solve	The key idea is that the
			i i i i i i i i i i i i i i i i i i i		difference (minuend minus
				problems?	subtrahend) is the same
				Dienes for scaffolding if	whichever strategy they
				needed Drinting halanunshad	use.
				Printing - holepunched	
					End of unit assessment