

Using Maths Aotearoa and Wilkie Way to deliver the refreshed New Zealand Curriculum

Maths Aotearoa teacher book 1B is set out in 4 units providing a sequenced approach to developing key knowledge and concepts. Each unit has suggested teaching activities and accompanying activity cards (100 cards instead of a textbook) for follow up work. More practice material for each unit is available through write on practice workbooks downloaded from the membership area of wilkieway.co.nz Book 2A is a teacher book and student text book continuing the sequenced approach. (For Year 2 Units 1 and part of unit 3 from book 2A apply)

Maths Aotearoa teacher books and activity cards are available from edify.co.nz

Phase 1: Year 2					
Understand: (big ideas)		Do (practices)			
 As students build knowledge through their use of the mathematical and statistical processes, they begin to understand: Patterns and variation Logic and reasoning Visualisation and application 		 Students will have learning opportunities, and be guided to: Investigate situations Represent situations Connect situations Generalise findings Explain and justify findings 			
	Know: Contexts of	Number & Algebra			
Number Structure	Operations	Rational Numbers	Equations & relationships		
Group objects in a collection of at least 10, subitise the number in each part & find the total number in the collection using the parts. Count forwards or backwards in 1s, 2s, 5s&10s from any number in range 1-100 Identify, read & write numbers up to at least 100 and represent them using base 10 structure. Compare and order numbers up to at least 100. Partition & regroup numbers up to at least 100 using a systematic approach and noticing patterns.	Use estimation to predict results & check reasonableness of calculations. Identify the nearest ten to any whole number up to 100 Add & subtract numbers up to 100 without renaming. Recall addition facts up to 10 and explore addition facts up to 20 and their corresponding subtraction facts including doubles and halves. Identify the relationship between skip counting and multiplication facts for 2s 5s and 10s Multiply and divide using equal grouping or skip counting (e;g; in 2s, 5s & 10s)	Identify, read, write (using symbols & words) and represent halves, quarters & eighths as fractions of sets and regions using equal parts of the whole. Directly compare two fractions involving halves, quarters & eighths. Financial Maths Recognise and order New Zealand denominations up to \$20 according to their value, make groups of "like" denominations and calculate their value.	Solve true and false number sentences and open number sentences involving addition & subtraction, of one and two digit numbers, using an understanding of the equals sign. Recognise, and describe the unit of repeat in a repeating patterns, and use it to predict further elements using the ordinal position. Algorithmic Thinking Follow and give step by step instructions for a simple task, identifying & correcting errors as the instructions are followed.		
Maths Literacy Development					
 Deliberate focus with reading & unders Communicate and explain counting, g Use the symbols (+, -)for addition and 	vocabulary - see vocabulary list in curriculu standing math texts. rouping and equal sharing strategies, using subtraction conceptual ideas on to represent the same quantity of both sid	m document manipulatives, words, numbers and picture	S.		

Concepts being developed		Key knowledge being developed	
 The next counting number is the result of adding one more; Addition is commutative; Addition is associative; Subtraction as takeaway; Subtraction as difference; Subtraction and addition are inverse relationships. Multiplication as repeated addition Equal sharing and equal grouping Fractions as equal sharing and equal partitioning The importance of a group of ten to the number system. 		 Read, write and order numbers to 1000 Recall family of facts with 10 Recall family of facts for teen numbers Recall doubles to 20 and corresponding halves Know one half = 2 quarters Know the number of groups of ten and groups of one in any 2 digit number Know basic addition and subtraction facts within 10 are repeated in each column. 	
		roa Book 1B	
Unit 1: Understanding Addition & Subtraction	Unit 2: Larger Numbers & Beginning Multiplication	Unit 3: Combining. Comparing & Ordering	Unit 4: Combining, Grouping & Sharing
 Use counting on to solve addition problems. Use counting backwards to solve subtraction (take away) type problems. Recognise and use patterns to recall basic facts Apply recall of known facts to addition and subtraction situation; Use known facts to reason unknown facts. Begin connecting addition and subtraction facts. Compare numbers to find the difference in quantity Use counting on to solve a difference situation – how many more or how many less? Use recall of known facts to solve a difference situation. Recognise the pairs to make ten Notice the pattern in pairs to make ten 	 Count on from any number within the range 0 – 100 Count backwards from any number in the range 0 – 100 Read and write two digit numbers Count in twos, fives and tens Recognise patterns in counting sequences Notice odd and even numbers Make equal groups Count how many altogether using the appropriate counting sequence Recognise and solve repeated addition (equal grouping multiplication) type problems using the appropriate counting sequence. Recall doubles up to 10 + 10 Make a connection between counting in twos and the recall of doubles. Begin to use doubles as an additive strategy for recalling addition facts. 	 Draw a picture to show an addition or subtraction situation; Count all objects to find how many altogether; Image objects and count all to find how many altogether; Take a number of objects away from a set and count how many remain using the objects: Image take a number of objects away from a set and count how many remain using imaging. Recall doubles to 10 Recalls pairs within 5 	 Read and write numbers to 20 Sequence and order numbers to 20 Reliably count a set of objects up to 20 Give the number before and after in the range 0 – 20 Give the number between two numbers in the range 0 – 20 Give the number one more and one less/fewer in the range 0 - 20 Investigate teen numbers as 10 + (including Te Reo Maori) Create equal groups from a set of objects Solve equal group type word problems Count in twos, fives and tens Solve a word problem by equal sharing Halve a shape into equal pieces Find half of a number of objects by equal sharing between two Quarter a shape into four equal pieces Find quarter a number of objects by

Practice workbooks:	Material available from Wilkie Way websit Practice workbooks:	Practice workbooks:	Practice workbooks:	
13. Adding and Taking Away	17. Sequencing to 100	20. Fractions of Shapes	23. Using 10 as a Counting Set	
14. Patterns and Relationships	18. Equal Grouping	21. Equal Sharing	24. The importance of a group of 10	
15. Finding the Difference	19. Working with Doubles	22. Fractions of Numbers	25. Addition & Subtraction to 20	
16. Making 10				
	Maths Aotea	roa Book 2A		
Unit 1: Addition	Subtraction & Place Value	Unit 3: Addition & Subtraction		
· · · · · · · · · · · · · · · · · · ·		Chapter 9 Working with tens nu		
 Chapter 1 Addition & Subtraction Read straightforward word problems 			a facts are repeated in each of the columns	
 Represent word problems as add 		 Begin to see how the number sytem (Place value) assist estimating and numeric 		
		reasoning		
 Write a word problem represented by an addition or subtraction equation Solve word problems involving addition & subtraction within 20 		Consolidating addition and subtraction fatcs to 10		
 Use the commutative property of addition 		Chapter 10 Adding and subtracting		
 Use the = symbol to represent same quantity of either side. 		Use rounding to the closest decade to make a sensible estimate		
Chapter 2 Numbers to 20		 Use standard partitioning to add and subtract 2 digit numbers (no regrouping) 		
 Recall of 10+ knowledge and corresponding subtractions 		Consolidating addition & subtraction facts to 10		
•) and 10+ knowledge when adding strings of			
numbers in equations and word p				
The importance of patterns in ma				
• The importance of a group of 10				
Using the associative property of	-			
Chapter 3 Using a hundred square				
 Read, write and order numbers to 				
	as a material support to thinking about 2 digit			
numbers				
• Add and subtract 10 from any two	o digit number			
Chapter 4 Tens and Ones	5			
 Read, write and order numbers to 	o 1000			
	epresent the number of groups of ten			
	epresents the number of groups of one			
	presents none of the groups represented by the			
column heading				
 Represent two digit numbers in g 	roups of ten and groups of one			
	ten and groups of one in any two digit number			
Chapter 5 Money				
 Know the value of coins in circula 	ation in New Zealand			
 Know 100 cents = 1 dollar 				
Know basic addition and subtract	tion facts are repated in the tens column			
Add and subtract tens numbers i				

Support Material available from Wilkie Way website wilkieway.co.nz: membership area (subscription)				
 Practice Workbooks 6. (Chapter 9) Add & Subtract Decades, Rounding to closest Decade 7. (Chapter 10) Multi digit addition, making use of basic facts to 10 8. (Chapter 10) Multi digit subtraction, making use of facts to 10 				