Y0-Y8 Curriculum to NUMICON Alignment: Year-by-Year Teaching Sequence Statements

First 6 months

Strand and Element	Oct 2025	Resource Title	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/Section Reference	Notes
Number: number structures	Subitising (recognising without counting) the number of objects in a small collection (3–5 objects)	Firm Foundations (FF) Everyday Counting with Numicon Cards 1, 2, 3	Print & Digital	Teacher	• Cards 1, 2, 3 • Numicon at the Seaside • Numicon at the Seaside Teacher Guide	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Counting collections of up to 10 objects using one-to-one correspondence	Firm Foundations (FF) Everyday Counting with Numicon Card 4	Print & Digital	Teacher	• Card 4 • Numicon at the Seaside • Numicon at the Seaside Teacher Guide	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Counting forwards or backwards from any whole number between 1 and 10, and then between 1 and 20	Firm Foundations (FF) Everyday Counting with Numicon Cards 4 and 5 Additional resource download Cards 6-15, 17,18	Print & Digital	Teacher	• Card 5 • Numicon at the Seaside • Numicon at the Seaside Teacher Guide	To 10 To 20
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Reading and writing whole numbers up to 20	Firm Foundations (FF)	Print & Digital	Teacher	Card 2 - 11	

		Everyday Counting with Numicon Cards 2 - 11				Numicon at the Seaside Numicon at the Seaside Teacher Guide	Reading and writing to 10
					Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	Reading to 20
	Locating whole numbers on a fully labelled number line	Firm Foundations (FF) Everyday Counting with Numicon Cards 1-19	Print & Digital	Teacher	Everyday Counting with Numicon Firm Foundations (FF) Cards 1 - 19	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Comparing and ordering whole numbers up to 20 and ordinal numbers up to 5th, using words	Firm Foundations (FF) Everyday Counting with Numicon Cards 1-8, 12, 14-19	Print & Digital	Teacher	Cards 1-8, 12, 14-19	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Recognising when a quantity is greater than, less than, or the same as another quantity	Firm Foundations (FF) Cards 1-9,12, 14, 16 - 19	Print & Digital	Teacher	Cards 1-9,12, 14, 16 - 19	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
Number: operations	Memorising addition and subtraction facts up to 5 (e.g. 2 + 3 = 5)	Firm Foundations (FF) Cards 14, 15, 17, 18	Print & Digital	Teacher	Cards 14, 15, 17, 18	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Naming the number before or after a given number in the counting sequence up to 10	Firm Foundations (FF) Everyday Counting with Numicon Cards 2 – 5	Print & Digital	Teacher	Cards 2 - 5	
				Student Print download	• Counting and Ideas Number Book	

					• Numicon at the Seaside Home Learning	
Algebra: equations and relationships	Copying, continuing, creating, and describing a repeating pattern with two elements (e.g. cat, dog, cat, dog, _____, _____)	Firm Foundations (FF) Cards 2, 3, 6, 8	Print & Digital	Teacher	Cards 2, 3, 6, 8	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Using ordinal numbers up to 5th place to describe position in a sequence	Firm Foundations (FF) Cards 1-5 Numicon 1 (NPC) Numbers and the Number System1 Activity 4	Print & Digital	Teacher	Cards 1 - 5 Numicon 1 Pages 137-142, 153-159,	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
Measurement: measuring	Directly comparing two objects by an attribute (e.g. length, mass (weight), capacity)	Firm Foundations (FF) Cards 1, 2, 4, 5, 6, 7, 9, 13, 14, 15, 17	Print & Digital	Teacher	Cards 1, 2, 4, 5, 6, 7, 9, 13, 14, 15, 17	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Connecting days of the week to familiar events and daily routines (e.g. via the class timetable)	Firm Foundations (FF) Cards 8, 9, 15	Print & Digital	Teacher	Cards 8, 9, 15	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
	Naming and ordering the days of the week, including naming the day before and the day after	Firm Foundations (FF) Card 8	Print & Digital	Teacher	Card 8	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	
Geometry: shapes	Identifying, sorting by one attribute, and describing familiar 2D shapes, including triangles, circles, and rectangles (including squares)	Firm Foundations (FF)	Print & Digital	Teacher	Cards 3, 5, 10	Triangles circles, rectangles

		Cards 3, 5 - Triangles circles, rectangles Card 10 - Cuboids, cylinders Sorting, describing		Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	Cuboids, cylinders Sorting, describing
Geometry: pathways	Following instructions to move to a familiar location or locate an object	Firm Foundations (FF) Cards 16, 17	Print & Digital	Teacher	Cards 16, 17	
				Student Print download	• Counting and Ideas Number Book • Numicon at the Seaside Home Learning	

Year 1

Strand and Element	Oct 2025	Resource Title (NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/Section Reference	Notes
Number: number structures	Subitising (recognising without counting) smaller groups of objects within a larger collection (e.g. 3 and 5 in a group of 8 objects)	NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating	Print Digital	Teacher	62-68 62-68	
		NUMICON 1 (NPC) Securing Foundations 5 Describing relationships, more adding and patterns in movement	Print Digital	Teacher	69-73 69-73	
	Reading and writing whole numbers up to 100, and representing them using base 10 structure	NUMICON 1 (NPC) Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals	Print Digital	Teacher	74-80 74-80	Using Numicon shapes and Cuisenaire rods
		NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding NNS Activities 1-3	Print Digital	Teacher	83 83	
		NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns	Print Digital	Teacher	90 90	
	Counting forwards or backwards from any whole number between 1 and 20, and then between 1 and 100	NUMICON 1 (NPC) Securing Foundations 1 Learning about Numicon Shapes, number rods, pattern and counting	Print Digital	Teacher	42-48 42-48	
		NUMICON 1 (NPC) Securing Foundations 2 Naming Numicon Shapes, building patterns and counting objects	Print Digital	Teacher	49-55 49-55	
		NUMICON 1 (NPC) Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number lines	Print Digital	Teacher	56-61 56-61	
		NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating	Print Digital	Teacher	62-68 62-68	
		NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps	Print Digital	Teacher	147-152 147-152	

	Counting forwards and backwards in 2s and 10s from any whole number between 0 and 100	NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps	Print Digital	Teacher	147-152 147-152	Counting in tens, two's then fives
	Comparing and ordering whole numbers and ordinal numbers using representations, words, or numerals, and suffixes to 100	NUMICON 1 (NPC) Numbers and the Number System 4 Structure of 2-digit numbers and more ordering	Print Digital	Teacher	153-159 153-159	
	Counting collections of objects using one-to-one correspondence, and then by pairs, for up to 20 objects	NUMICON 1 (NPC) Numbers and the Number System 2 Finding how many by grouping Activity 2	Print Digital	Teacher	145-146 145-146	
		NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps Activity 1	Print Digital	Teacher	148, 152 148, 152	
	Finding the total number of objects up to 20 by grouping (using pairs, 5s, or 10s)	NUMICON 1 (NPC) Securing Foundations 1 Learning about Numicon Shapes, number rods, pattern and counting	Print Digital	Teacher	42-48 42-48	
		NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating	Print Digital	Teacher	62-68 62-68	
		NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding	Print Digital	Teacher	81-86 81-86	
		NUMICON 1 (NPC) Numbers and the Number System 2 Finding how many by grouping	Print Digital	Teacher	143-146 143-146	
		NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps Activity 1	Print Digital	Teacher	148, 152 148, 152	
	Using te reo Māori for numbers up to 30		Additional resources to download			Use Te Reo additional resources
	Locating numbers on a partially labelled number line (e.g. 17 on a number line labelled in 5s)	NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps Activity 2	Print Digital	Teacher	148 148	Lines labelled in 10's
		NUMICON 1 (NPC) Numbers and the Number System 4 Structure of 2-digit numbers and more ordering Activity 6	Print Digital	Teacher	156 156	

Number: operations	Memorising addition and subtraction facts up to 10, including $10 + 0 = 10$ (e.g. $7 + 3 = 10$)	NUMICON 1 (NPC) Calculating 4 Exploring adding and subtracting facts to 10	Print Digital	Teacher	179-190 179-190	
		NUMICON 1 (NPC) Calculating 7 Developing recall of adding and subtracting facts within 10	Print Digital	Teacher	203-209 204-210	
	Memorising doubles and halves to 10	FIRM FOUNDATIONS Firm Foundations Card 13	Print Digital	Teacher	Card 13	
		NUMICON 1 (NPC) Calculating 4 Exploring adding and subtracting facts to 10 Activity 21	Print Digital	Teacher	187-189 187-189	
	Adding ten to a one-digit number	NUMICON 1 (NPC) Calculating 9 Partitioning into tens and ones	Print Digital	Teacher	218-224 219-225	
	Adding and subtracting one- and two-digit numbers up to 20, including 0	NUMICON 1 (NPC) Calculating 8 Adding more than two numbers	Print Digital	Teacher	210-217 211-218	
		NUMICON 1 (NPC) Calculating 9 Partitioning into tens and ones	Print Digital	Teacher	218-223 219-225	
	Joining and separating groups of up to 20 objects (e.g. $9 + 6$, $7 + \_ = 11$).	NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding Activity NNS2	Print Digital	Teacher	83 83	
		NUMICON 1 (NPC) Numbers and the Number System 2 Finding how many by grouping	Print Digital	Teacher	143-146 143-146	
		NUMICON 1 (NPC) Calculating 9 Partitioning into tens and ones	Print Digital	Teacher	218-223 219-225	
	Multiplying and dividing using equal grouping or counting for products and dividends within 20	NUMICON 1 (NPC) Numbers and the Number System 3 Exploring number lines and counting in steps	Print Digital	Teacher	147-152 147-152	
	Naming the number before or after a given number in the counting sequence up to 20	NUMICON 1 (NPC) Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number lines NNS Practice & Discussion	Print Digital	Teacher	59 59	
		NUMICON 1 (NPC) Securing Foundations 6 Naming number rods, investigating teen numbers and finding totals Activity NNS 1	Print Digital	Teacher	76 76	

		NUMICON 1 (NPC) Securing Foundations 7 More about teen numbers, number patterns, adding Activities NNS 1-3	Print Digital	Teacher	83, 85 83, 85	
		NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns NNS Practice & Discussion	Print Digital	Teacher	90 90	
		NUMICON 1 (NPC) Numbers and the Number System 1 Ordering numbers to 20	Print Digital	Teacher	137-142 137-142	
		NUMICON 1 (NPC) Calculating 2 Adding and subtracting 1 and 2	Print Digital	Teacher	167-172 167-172	
	Solving one-step problems involving addition and subtraction using objects and pictorial representations	NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns	Print Digital	Teacher	87-91 87-91	
		NUMICON 1 (NPC) Securing Foundations 9 Sorting, more practical subtracting	Print Digital	Teacher	92-95 92-95	
		NUMICON 1 (NPC) Securing Foundations 11 Counting and adding	Print Digital	Teacher	101-106 101-106	
Number: rational numbers	Recognising and representing halves and quarters as fractions of sets, quantities, and regions, using equal parts of the whole	NUMICON 1 (NPC) Calculating 5 Halves and quarters of wholes	Print Digital	Teacher	191-195 191-196	
	Finding a half or quarter of a set using equal sharing and grouping	NUMICON 1 (NPC) Calculating 5 Halves and quarters of wholes	Print Digital	Teacher	191-195 191-196	Focus activities 6 and 7 are most relevant - in eBook and printable pack
	Using te reo Māori naming of halves (haurua) and quarters (hauwhā)		Additional resources to download			Use Te Reo additional resources Extend with additional activities
	Connecting $\frac{1}{2}$ and $\frac{1}{4}$ through halving	NUMICON 1 (NPC) Calculating 5 Halves and quarters of wholes	Print Digital	Teacher	191-195 191-196	Focus activities 6 and 7 are most relevant - in eBook and printable pack
Number: financial maths	Recognising and knowing the value of New Zealand denominations of currency (i.e, our coins and notes)	NUMICON 1 (NPC) Securing Foundations 8 Beginning subtracting, sorting, more number patterns Activity Pattern & Algebra 3	Print Digital	Teacher	88-89 88-89	
		NUMICON 1 (NPC) Calculating 3 Money	Print Digital	Teacher	173-178 173-178	Digital eBook uses NZ currency

		NUMICON 1 (GMS) Measurement 2 Introducing the $1 and $2 coins and $5 and $10 notes	Print Digital	Teacher	64-70 65-71	Digital eBook uses NZ currency
Algebra: equations and relationships	Completing open number sentences involving addition and subtraction of one-digit numbers (e.g. $2 + 5 = 3 + \_$)	NUMICON 1 (NPC) Calculating 7 Developing recall of adding and subtracting facts within 10 Activity 5	Print Digital	Teacher	205 206	
	Checking the truth of number sentences involving addition and subtraction of one-digit numbers (e.g. $7 - 5 = 6 - 4$, true or false?)	NUMICON 1 (NPC) Calculating 8 Adding more than two numbers Activity 14	Print Digital	Teacher	 217	Focus activity 14 is eBook only or in printable pack
	Copying, continuing, creating, and describing a repeating pattern with three elements	NUMICON 1 (NPC) Securing Foundations 3 Building Numicon Shape patterns, more repeating patterns and number lines Activity Pattern & Algebra 3	Print Digital	Teacher	57 57	
		NUMICON 1 (NPC) Securing Foundations 4 Comparing and ordering, more patterns, beginning calculating Activity Pattern & Algebra 1 and 2	Print Digital	Teacher	63 63	
		NUMICON 1 (NPC) Securing Foundations 5 Describing relationships, more adding and patterns in movement Activity Pattern & Algebra 1	Print Digital	Teacher	70 70	
		NUMICON 1 (GMS) Geometry 2 Making pictures, shapes and patterns	Print Digital	Teacher	34-40 34-40	
	Identifying missing elements in a pattern (e.g. red, green, blue, red, _____, blue)	NUMICON 1 (GMS) Geometry 2 Making pictures, shapes and patterns	Print Digital	Teacher	34-40 34-40	
Measurement: measuring	Comparing the length, mass (weight), or capacity of objects directly or indirectly (e.g. by comparing each of them with another reference object, used repeatedly)	NUMICON 1 (NPC) Securing Foundations 10 Comparing lengths and weights, more subtracting Activity Pattern & Algebra 1-3	Print Digital	Teacher	97-98 97-98	
		NUMICON 1 (GMS) Measurement 1 Comparing, ordering and measuring lengths and area	Print Digital	Teacher	59-63 59-64	
		NUMICON 1 (GMS) Measurement 4 Comparing, ordering and measuring heaviness	Print Digital	Teacher	76-81 77-82	

	Using comparative language for lengths and heights (longer, shorter, taller) and mass (heavier, lighter)	NUMICON 1 (GMS) Measurement 1 Comparing, ordering and measuring lengths and area	Print Digital	Teacher	59-63 59-64	
		NUMICON 1 (GMS) Measurement 4 Comparing, ordering and measuring heaviness	Print Digital	Teacher	76-81 77-82	
	Selecting appropriate units of time to communicate approximate durations in years, months, weeks, days, hours, minutes, or seconds	NUMICON 1 (GMS) Measurement 3 Units of time	Print Digital	Teacher	71-75 72-76	
	Sequencing events in a day using everyday language of time (e.g. after, before, earlier, later, tomorrow, yesterday, the day after, next)	NUMICON 1 (GMS) Measurement 3 Units of time	Print Digital	Teacher	71-75 72-76	
	Telling the time on analogue and digital clocks to the hour, using the language of 'o'clock'	NUMICON 1 (GMS) Measurement 6 Telling the time	Print Digital	Teacher	87-92 89-94	Extend to digital clocks
Geometry: shapes	Identifying, describing, and sorting by one attribute familiar 2D and 3D shapes presented in different orientations, including cubes, cylinders, and spheres	NUMICON 1 (GMS) Geometry 1 Recognizing and naming 2D shapes	Print Digital	Teacher	28-33 28-33	
		NUMICON 1 (GMS) Geometry 3 Recognizing and imagining common 3D shapes	Print Digital	Teacher	41-45 41-45	
		NUMICON 1 (GMS) Geometry 4 Comparing and naming common solid 3D shapes	Print Digital	Teacher	46-50 46-50	
Geometry: spatial reasoning	Composing a compound shape using smaller shapes by trial and error, and decomposing a shape into smaller shapes	NUMICON 1 (GMS) Geometry 2 Making pictures, shapes and patterns	Print Digital	Teacher	34-40 34-40	
Geometry: pathways	Following instructions to move to a familiar location or locate an object	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Print Digital	Teacher	51-57 51-57	
	Using pictures, diagrams, or stories to describe the positions of objects and places.	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Print Digital	Teacher	51-57 51-57	
	Using positional language to describe the position and movement of objects (e.g. above, below, left, right, in-front, behind, top, bottom, inside, outside, on, under, next to)	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Print Digital	Teacher	51-57 51-57	
Statistics: Developing knowledge from data	Collecting categorical data for an investigative question with limited categories (e.g. Do students in our class have one foot longer than the other?)	NUMICON 1 (NPC) Pattern & Algebra 3 Odd and even	Print Digital	Teacher	124-127 124-127	S&P1 is eBook only, plus printable pack
		NUMICON 1 (NPC) Pattern & Algebra 4 Logic	Print Digital	Teacher	128-131 128-131	

		NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Print download Digital	Teacher	17-30 96-100	
	Recording data using tally charts	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Print download Digital	Teacher	17-30 96-100	S&P1 is eBook only, plus printable pack
Statistics: Visualisation of data	Creating picture graphs for categorical data	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Print download Digital	Teacher	17-30 96-100	S&P1 is eBook only, plus printable pack
Statistics: Interpretation of data	Describing a picture graph by giving the frequency for each category	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Print download Digital	Teacher	17-30 96-100	S&P1 is eBook only, plus printable pack
	Answering questions about a picture graph, including which category has the most or least items	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Print download Digital	Teacher	17-30 96-100	S&P1 is eBook only, plus printable pack

Year 2

Strand and Element	Oct 2025	Resource Title *(NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)*	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/Section Reference	Notes
Number: number structures	Reading and writing whole numbers up to 120, and representing them using base 10 structure	NUMICON 2 (NPC) Numbers and the Number System 1 Counting to 100 and beyond	Print Digital	Teacher	88-92 90-94	
		NUMICON 2 (NPC) Numbers and the Number System 2 2-digit numbers	Print Digital	Teacher	93-98 95-100	
		NUMICON 3 (NPC) Numbers and the Number System 2 Exploring hundreds, tens and ones with base-ten apparatus	Print Digital	Teacher	80-83 80-83	
	Comparing and ordering whole numbers up to 120	NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Print Digital	Teacher	99-104 100-106	
		NUMICON 2 (NPC) Numbers and the Number System 4 Comparing and ordering numbers to 100	Print Digital	Teacher	105-109 107-111	
	Counting forwards in 3s from multiples of 3s	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Print Digital	Teacher	68-75 69-76	Digital uses NZ currency
		NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding Activity 6	Print Digital	Teacher	168, 170 170, 172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays Activity 5	Print Digital	Teacher	173, 175 175, 177	
	Counting forwards and backwards in 2s, 5s, and 10s from any whole number between 0 and 120	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Print Digital	Teacher	68-75 69-76	Digital uses NZ currency
		NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding	Print Digital	Teacher	165-170 167-172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays Activity 1	Print Digital	Teacher	171-176 173-178	

	Finding the total number of objects up to 120 by separating them into groups (e.g. groups of ten)	NUMICON 2 (NPC) Numbers and the Number System 1 Counting to 100 and beyond	Print Digital	Teacher	88-92 90-94	
		NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Print Digital	Teacher	99-104 100-106	
	Using te reo Māori for numbers up to 100		Additional resources to download	Teacher		Use Te Reo additional resources
	Identifying odd and even numbers up to 120	NUMICON 2 (NPC) Pattern & Algebra 4 Odd and even	Print Digital	Teacher	63-67 64-68	
	Rounding numbers up to 120 to the nearest 10	NUMICON 2 (NPC) Numbers and the Number System 5 Rounding	Print Digital	Teacher	110-114 112-116	
	Recognising the place value of each digit in a two-digit number, and a three-digit number up to 120	NUMICON 2 (NPC) Numbers and the Number System 2 2-digit numbers	Print Digital	Teacher	93-98 95-100	
		NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Print Digital	Teacher	99-104 100-106	
		NUMICON 3 (NPC) Numbers and the Number System 2 Exploring hundreds, tens and ones with base-ten apparatus	Print Digital	Teacher	80-83 80-83	
	Approximately locating numbers up to 120 on a partially labelled number line (e.g. 61 on a number line labelled in tens)	NUMICON 2 (NPC) Numbers and the Number System 1 Activity 6	Print Digital	Teacher	91 93	
		NUMICON 2 (NPC) Numbers and the Number System 2 2-digit numbers	Print Digital	Teacher	93-98 95-100	
		NUMICON 2 (NPC) Numbers and the Number System 3 More 2-digit numbers	Print Digital	Teacher	99-104 100-106	
Number: operations	Memorising addition and subtraction facts up to 20 (e.g. $17 + 3 = 20$)	NUMICON 2 (NPC) Calculating 14 Adding and subtracting to 20	Print Digital	Teacher	201-207 203-209	
	Memorising doubles and halves to 20	NUMICON 2 (NPC) Calculating 10 Mental strategies for near doubles and adding and subtracting 9	Print Digital	Teacher	177-182 179-184	
	Adding 100 to a one-digit number	NUMICON 3 (NPC) Numbers and the Number System 2 Exploring hundreds, tens and ones with base-ten apparatus	Print Digital	Teacher	80-83 80-83	
	Adding and subtracting numbers up to 100 (e.g. $32 + 20$ or $32 + 2$)	NUMICON 2 (NPC) Calculating 5	Print Digital	Teacher	144-150 146-153	

		Adding and subtracting 1 and 10				
		NUMICON 2 (NPC) Calculating 7 Adding and subtracting 1-digit numbers to and from 2-digit numbers	Print Digital	Teacher	158-164 160-166	
		NUMICON 2 (NPC) Calculating 11 Bridging through multiples of 10	Print Digital	Teacher	183-187 185-189	
		NUMICON 2 (NPC) Calculating 12 Adding three or more 1-digit numbers	Print Digital	Teacher	188-192 190-194	
		NUMICON 2 (NPC) Calculating 13 Adding and subtracting 2-digit numbers to 100	Print Digital	Teacher	193-200 194-202	
	Adding and subtracting 3 one-digit numbers (e.g. 7 + 3 + 6).	NUMICON 2 (NPC) Calculating 12 Adding three or more 1-digit numbers	Print Digital	Teacher	188-192 190-194	New activity coming for subtraction
	Solving one-step addition and subtraction problems involving numbers up to 100	NUMICON 2 (NPC) Pattern & Algebra 2 Exploring the inverse relationship between adding and subtracting within 10	Print Digital	Teacher	51-56 51-56	
		NUMICON 2 (NPC) Pattern & Algebra 3 Exploring equivalence – introducing empty box notation	Print Digital	Teacher	57-62 57-63	eBook and printable pack
		NUMICON 2 (NPC) Calculating 1 Adding and writing adding sentences	Print Digital	Teacher	120-124 122-126	
		NUMICON 2 (NPC) Calculating 2 Subtracting and writing subtraction sentences	Print Digital	Teacher	125-129 127-131	
	Solving multi-step addition and subtraction problems involving numbers up to 20	NUMICON 2 (NPC) Calculating 14 Adding and subtracting to 20	Print Digital	Teacher	201-207 203-209	
	Identifying the relationship between skip counting and multiplication facts for 2s, 5s, and 10s	NUMICON 2 (NPC) Pattern & Algebra 5 Patterns and sequences of 2s, 3s, 5s and 10s	Print Digital	Teacher	68-75 69-76	Digital uses NZ currency
		NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding	Print Digital	Teacher	165-170 167-172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays	Print Digital	Teacher	171-176 173-178	
	Memorising multiplication and corresponding division facts for 2s, 5s, and 10s	NUMICON 2 (NPC) Pattern & Algebra 5	Print Digital	Teacher	68-75 69-76	

			Print/Digital	Teacher	Pages	
		Patterns and sequences of 2s, 3s, 5s and 10s				
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays	Print Digital	Teacher	171-176 173-178	
		NUMICON 2 (NPC) Calculating 15 Introducing dividing as 'How many … in …?'	Print Digital	Teacher	208-213 210-215	
	Multiplying and dividing with products and dividends up to 100	NUMICON 2 (NPC) Calculating 8 Introducing multiplying as repeated adding	Print Digital	Teacher	165-170 167-172	
		NUMICON 2 (NPC) Calculating 9 Learning times tables and about multiplying through arrays	Print Digital	Teacher	171-176 173-178	
		NUMICON 2 (NPC) Calculating 15 Introducing dividing as 'How many … in …?'	Print Digital	Teacher	208-213 210-215	
Number: rational numbers	Recognising, reading, writing (using symbols and words), and representing halves, thirds, and quarters ($\frac{1}{3}, \frac{1}{4}, \frac{2}{4}, \frac{1}{2}, \frac{2}{3}, \frac{3}{4}$) as fractions of sets, quantities, and regions, using equal parts of the whole	NUMICON 2 (NPC) Numbers and the Number System 6 Introducing fractions as numbers	Print Digital	Teacher	115-118 117-120	
		NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Print Digital	Teacher	214-218 216-221	eBook and printable pack
	Recognising the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$	NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Print Digital	Teacher	214-218 216-221	eBook and printable pack
	Directly comparing two fractions involving halves, thirds, or quarters	NUMICON 2 (NPC) Numbers and the Number System 6 Introducing fractions as numbers	Print Digital	Teacher	115-118 117-120	eBook and printable pack
		NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Print Digital	Teacher	214-218 216-221	eBook and printable pack
	Finding a half, quarter, or third of a set by identifying groups and patterns (rather than sharing by ones)	NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Print Digital	Teacher	214-218 216-221	eBook and printable pack
	Finding a whole when given a $\frac{1}{2}, \frac{1}{3},$ or $\frac{1}{4}$ of a length, shape, or set of objects or quantities	NUMICON 2 (NPC) Calculating 16 Halves, quarters and thirds of wholes	Print Digital	Teacher	214-218 216-221	eBook and printable pack
Number: financial maths	Recognising and ordering New Zealand denominations according to their value, making groups of 'like' denominations, and calculating their value	NUMICON 2 (GMS) Measurement 2 Introducing the 10c, 20c and 50c coins and revisiting the $1 and $2 coins	Print Digital	Teacher	66-71 66-71	Digital eBook uses NZ currency
		NUMICON 2 (GMS) Measurement 3 Exploring the $5, $10 and $20 notes	Print Digital	Teacher	72-76 72-76	Digital eBook uses NZ currency

	Combining denominations of currency (either all notes or all coins) to make a particular value	NUMICON 2 (GMS) Measurement 2 Introducing the 10c, 20c and 50c coins and revisiting the $1 and $2 coins	Print Digital	Teacher	66-71 66-71	Digital eBook uses NZ currency
		NUMICON 2 (GMS) Measurement 3 Exploring the $5, $10 and $20 notes	Print Digital	Teacher	72-76 72-76	Digital eBook uses NZ currency
Algebra: equations and relationships	Checking the truth of number sentences and completing open number sentences involving addition, subtraction, multiplication, or division using tens frames, discrete materials, or number lines (e.g. $18 + \_ = 17 + 6$, $6 \div \_ = 2$, $2 + 2 + 2 = 3 \times 2$, true or false?)	NUMICON 2 (NPC) Pattern & Algebra 3 Exploring equivalence – introducing empty box notation	Print Digital	Teacher	57-62 57-63	eBook and printable pack
		NUMICON 2 (NPC) Calculating 1 Adding and writing adding sentences	Print Digital	Teacher	120-124 122-126	
		NUMICON 2 (NPC) Calculating 4 Adding and subtracting whole tens Focus activities 8 and 13	Print Digital	Teacher	139, 142-143 141, 144-145	
		NUMICON 2 (NPC) Calculating 5 Adding and subtracting 1 and 10 Activity 9	Print Digital	Teacher	148-149 150-151	
		NUMICON 2 (NPC) Calculating 14 Adding and subtracting to 20 Focus activities 4 and 8	Print Digital	Teacher	203-205, 207 205-207, 209	
		NUMICON 2 (NPC) Calculating 15 Introducing dividing as 'How many … in … ?' Focus activities 2 and 5	Print Digital	Teacher	210, 211 210, 213	
	Checking the truth of number sentences involving direct comparisons of whole numbers up to 120 (e.g. $16 > 60$, true or false?)	NUMICON 2 (NPC) Numbers and the Number System 4 Comparing and ordering numbers to 100	Print Digital	Teacher	105-109 107-111	
	Recognising and describing the unit of repeat in a repeating pattern, and using the unit of repeat and ordinal position in a repeating pattern to predict further elements (e.g. ACDC in the pattern ACDCACDCACDC)	NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns	Print Digital	Teacher	46-50 46-50	
Measurement: measuring	Estimating and using an informal unit repeatedly to measure the length, mass (weight), or capacity of an object	NUMICON 2 (GMS) Measurement 1 Introducing centimetres	Print Digital	Teacher	59-65 59-65	
		NUMICON 2 (GMS) Measurement 4 Introducing metres	Print Digital	Teacher	77-82 77-82	
		NUMICON 2 (GMS) Measurement 5 Introducing kilograms and grams	Print Digital	Teacher	83-88 83-88	

		NUMICON 2 (GMS) Measurement 6 Introducing litres and millilitres, and units of temperature	Print Digital	Teacher	89-94 89-94	
	Estimating and measuring length (cm), mass (g), and capacity (ml), using tools with labelled markings and whole-number metric units	NUMICON 2 (GMS) Measurement 1 Introducing centimetres	Print Digital	Teacher	59-65 59-65	
		NUMICON 2 (GMS) Measurement 4 Introducing metres	Print Digital	Teacher	77-82 77-82	
		NUMICON 2 (GMS) Measurement 5 Introducing kilograms and grams	Print Digital	Teacher	83-88 83-88	
		NUMICON 2 (GMS) Measurement 6 Introducing litres and millilitres, and units of temperature	Print Digital	Teacher	89-94 89-94	
	Comparing and ordering several objects using informal units of length, mass (weight), or capacity	NUMICON 2 (GMS) Measurement 1 Introducing centimetres	Print Digital	Teacher	59-65 59-65	
		NUMICON 2 (GMS) Measurement 4 Introducing metres	Print Digital	Teacher	77-82 77-82	
		NUMICON 2 (GMS) Measurement 5 Introducing kilograms and grams	Print Digital	Teacher	83-88 83-88	
		NUMICON 2 (GMS) Measurement 6 Introducing litres and millilitres, and units of temperature	Print Digital	Teacher	89-94 89-94	
	Turning an object or person and describing how far they have turned, using full, half, quarter, and three-quarter turns as benchmarks	NUMICON 2 (GMS) Geometry 5 Investigating and describing rotation	Print Digital	Teacher	50-56 50-56	
	Naming and ordering the months and seasons	NUMICON 1 (GMS) Measurement 3 Units of time	Print Digital	Teacher	71-75 72-76	
		NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns	Print Digital	Teacher	46-50 46-50	
	Describing durations of familiar events using years, months, weeks, and days, or hours, minutes and seconds	NUMICON 1 (GMS) Measurement 3 Units of time	Print Digital	Teacher	71-75 72-76	
		NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns	Print Digital	Teacher	46-50 46-50	
		NUMICON 2 (GMS) Measurement 7	Print Digital	Teacher	95-101 95-101	

		Telling the time and adding and subtracting with units of time				
		NUMICON 3 (GMS) Measurement 2 Exploring units of time	Print Digital	Teacher	63-68 63-68	
	Naming the month before and the month after	NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns Activity 3	Print Digital	Teacher	47-48 47-48	
	Using ordinal numbers to identify months of the year	NUMICON 2 (NPC) Pattern & Algebra 1 Exploring different patterns Activity 3	Print Digital	Teacher	47-48 47-48	
	Telling the time on analogue and digital clocks to the hour, half-hour, and quarter-hour, using the language of 'past' and 'o'clock'	NUMICON 2 (GMS) Measurement 7 Telling the time and adding and subtracting with units of time	Print Digital	Teacher	95-101 95-101	
	Measuring the perimeter of polygon using metric units	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons	Print Digital	Teacher	27-32 27-33	Numicon 2 GEO 1 introduces polygons
		NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Print Digital	Teacher	69-73 69-73	Numicon 3 MEA3 focuses on measuring perimeter of simple shapes using metric units
Geometry: shapes	Identifying, describing, visualising, and sorting 2D and 3D shapes, including ovals, semicircles, polygons (e.g. hexagons, pentagons), rectangular prisms (cuboids), pyramids, and cones, using the attributes of shapes	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons	Print Digital	Teacher	27-32 27-32	
		NUMICON 2 (GMS) Geometry 2 Identifying the faces, edges and vertices of solid 3D shapes	Print Digital	Teacher	33-37 33-37	
		NUMICON 2 (GMS) Geometry 4 Recognizing and naming prisms and cylinders	Print Digital	Teacher	44-49 44-49	
Geometry: spatial reasoning	Flipping, sliding, and turning 2D shapes to make a pattern or compose a shape	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons Focus activities 2 and 3	Print Digital	Teacher	27-32 27-32	
		NUMICON 2 (GMS) Geometry 5 Investigating and describing rotation	Print Digital	Teacher	50-56 50-56	
Geometry: pathways	Following and giving instructions to move to a different location, using direction, distances (e.g. number of steps), and half and quarter turns	NUMICON 2 (GMS) Geometry 5 Investigating and describing rotation	Print Digital	Teacher	50-56 50-56	
	Interpreting diagrams to describe the positions of objects and places in relation to other objects and places.	NUMICON 1 (GMS) Geometry 5 Position, direction and movement	Print Digital	Teacher	51-57 51-57	

Statistics: Developing knowledge from data	Collecting categorical data for an investigative question with limited categories (e.g. What are the favourite pets of students in our class?)	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	6-18 103-108	eBook and printable pack
	Sorting categorical data into categories and considering if "other" should be a category for sorting rare responses	NUMICON 2 (NPC) Pattern & Algebra 6 Logic	Print Digital	Teacher	76-81 77-82	
		NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	6-18 103-108	eBook and printable pack
	Recording data using tally charts	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	6-18 103-108	eBook and printable pack
Statistics: Visualisation of data	Creating data visualisations for categorical data	NUMICON 2 (NPC) Pattern & Algebra 6 Logic	Print Digital	Teacher	76-81 77-82	
		NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	6-18 103-108	eBook and printable pack
Statistics: Interpretation of data	Describing data visualisations using the variable name and the context and giving the frequency for each category	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	6-18 103-108	eBook and printable pack
	Answering questions about data visualisations, including which category has the most or least items	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print download Digital	Teacher	6-18 103-108	eBook and printable pack

Year 3

Strand and Element	Oct 2025	Resource Title (NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/ Section Reference	Notes
Number: number structures	Reading and writing whole numbers up to 1,000, and representing them using base 10 structure	NUMICON 3 (NPC) Number and the Number System 2 Exploring hundreds, tens, and ones with base ten apparatus	Print Digital	Teacher	80-83 80-83	
			Print	Student	14-17	
	Recognising the place value of each digit in a three-digit number	NUMICON 3 (NPC) Number and the Number System 2 Exploring hundreds, tens, and ones with base ten apparatus	Print Digital	Teacher	80-83 80-83	
			Print	Student	14-17	
	Comparing and ordering whole numbers up to 1,000	NUMICON 3 (NPC) Number and the Number System 5 Ordering and structuring numbers to 1000	Print Digital	Teacher	92-99 92-99	
			Print	Student	66-69	
	Finding the total number of objects beyond 120 by first separating them into groups (e.g. groups of 10 or 100)	NUMICON 3 (NPC) Number and the Number System 2 Exploring hundreds, tens, and ones with base ten apparatus	Print Digital	Teacher	80-83 80-83	
			Print	Student	14-17	
	Estimating the answer to a calculation	NUMICON 2 (NPC) Number and the Number System 5 Rounding	Print Download Digital	Teacher	3 113-114	
		NUMICON 3 (NPC) Calculating 13 Using apparatus and imagery to introduce the written column method for addition	Print Digital	Teacher	193-198 193-198	
			Print	Student	110-113	
		NUMICON 3 (NPC) Calculating 14 Using apparatus and imagery to introduce the written column method for subtraction	Print Digital	Teacher	199-201 99-204	
			Print	Student	114-117	
	Rounding numbers to the nearest 10 or 100	NUMICON 3 (NPC) Number and the Number System 6 Finding halfway, rounding to the nearest 10 or 100	Print Digital	Teacher	100-104 100-104	
			Print	Student	82-85	
	Counting forwards and backwards in 2s, 3s, 4s, 5s, and 8s from multiples of these numbers (e.g. 20, 15, 10, 5; 8, 16, 24, 32)	NUMICON 3 (NPC) Calculating 10 Learning multiplying facts and looking for patterns	Print Digital	Teacher	176-180 176-180	
			Print	Student	86-89	

	Counting forwards and backwards in 10s and 100s from any whole number between 0 and 1000	NUMICON 3 (NPC) Number and the Number System 5 Ordering and structuring numbers to 1000	Print Digital	Teacher	92-99 92-99	
			Print	Student	66-69	
		NUMICON 3 (NPC) Number and the Number System 6 Finding halfway, rounding to the nearest 10 or 100	Print Digital	Teacher	100-104 100-104	
			Print	Student	82-85	
Number: operations	Finding the complement of a number to 100 (e.g. $34 + \_ = 100$)	NUMICON 3 (NPC) Calculating 2 Developing fluency with adding and subtracting facts to 20 Activity 9	Print Digital	Teacher	126-132 126-132	
			Print	Student	13	
		NUMICON 3 (NPC) Calculating 9 Patterns of similar adding and subtracting calculations Activity 6	Print Digital	Teacher	170-171 170-171	
			Print	Student	75	
	Adding and subtracting numbers up to 1000 (e.g. $329 + 3, 329 + 80, 329 - 200, 137 + 54$)	NUMICON 3 (NPC) Calculating 13 Using apparatus and imagery to introduce the written column method for addition	Print Digital	Teacher	193-198 193-198	
			Print	Student	110-113	
		NUMICON 3 (NPC) Calculating 14 Using apparatus and imagery to introduce the written column method for subtraction	Print Digital	Teacher	199-201 99-204	
			Print	Student	114-117	
	Solving one-step addition and subtraction problems involving numbers up to 1000	NUMICON 3 (NPC) Calculating 13 Using apparatus and imagery to introduce the written column method for addition	Print Digital	Teacher	193-198 193-198	
			Print	Student	110-113	
		NUMICON 3 (NPC) Calculating 14 Using apparatus and imagery to introduce the written column method for subtraction	Print Digital	Teacher	199-201 99-204	
			Print	Student	114-117	
	Solving multi-step addition and subtraction problems involving numbers up to 100	NUMICON 3 (NPC) Calculating 3 Mental methods for adding single digit numbers	Print Digital	Teacher	133-137 133-137	
			Print	Student	26-29	
		NUMICON 3 (NPC) Calculating 4 Mental methods for subtracting	Print Digital	Teacher	138-143 138-143	
			Print	Student	30-33	

		NUMICON 3 (NPC) Calculating 9 Patterns of similar adding and subtracting calculations	Print Digital	Teacher	167-175	
			Print	Student	74-77	
		NUMICON 3 (NPC) Calculating 12 Partitioning strategies for adding and subtracting	Print Digital	Teacher	186-192 186-192	
			Print	Student	98-101	
	Memorising multiplication and corresponding division facts for 2s, 3s, 4s, 5s, 8s, and 10s	NUMICON 3 (NPC) Calculating 10 Learning multiplying facts and looking for patterns	Print Digital	Teacher	176-180 176-180	
			Print	Student	86-89	
	Multiplying or dividing using equal sharing, grouping, repeated addition or subtraction, or known facts	NUMICON 3 (NPC) Calculating 5 Revising multiplying as repeated adding	Print Digital	Teacher	144-147 144-147	
			Print	Student	42-45	
		NUMICON 3 (NPC) Calculating 7 Revising dividing as 'How many…in…?	Print Digital	Teacher	153-159 153-159	
			Print	Student	50-53	
	Multiplying a one- or two-digit number by a one-digit number (e.g. $4 \times 6; 2 \times 23$)	NUMICON 3 (NPC) Calculating 15 Exploring ratio, scaling problems and introducing the short written methods of multiplying and dividing	Print Digital	Teacher	205-210 205-210	
			Print	Student	118-121	
	Dividing whole numbers by a one-digit divisor with no remainders (e.g. $24 \div 3, 32 \div 4$)	NUMICON 3 (NPC) Calculating 15 Exploring ratio, scaling problems and introducing the short written methods of multiplying and dividing	Print Digital	Teacher	205-210 205-210	
			Print	Student	118-121	
Number: rational numbers	Reading, writing, and representing fractions of sets, quantities, and measurements on a number line, and of regions, using small denominators	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 1	Print Digital	Teacher	111-117 111-117	
			Print	Student	146-149	
	Counting in unit fractions up to 1	NUMICON 3 (NPC) Number and the Number System 7 Understanding factions of a whole and fractions as numbers Activity 5	Print Digital	Teacher	105-110 105-110	
			Print	Student	142-145	
	Comparing unit fractions with denominators up to 12	NUMICON 3 (NPC) Number and the Number System 7	Print Digital	Teacher	105-110 105-110	

		Understanding factions of a whole and fractions as numbers Activity 3	Print	Student	142-145	
	Comparing non-unit fractions with the same denominator up to 12	NUMICON 3 (NPC) Number and the Number System 7 Understanding factions of a whole and fractions as numbers Activity 4	Print Digital	Teacher	105-110 105-110	
			Print	Student	142-145	
	Identifying when two fractions are equivalent, using representations	NUMICON 3 (NPC) Number and the Number System 7 Understanding factions of a whole and fractions as numbers Activity 7	Print Digital	Teacher	105-110 105-110	
			Print	Student	142-145	
		NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 6	Print Digital	Teacher	111-117 111-117	
			Print	Student	146-149	
	Finding a unit fraction of a whole number by connecting to division (e.g. $\frac{1}{3}$ of 15 is found by $15 \div 3$)	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 8	Print Digital	Teacher	111-117 111-117	
			Print	Student	146-149	
	Finding the whole when given a unit fraction by connecting to repeated addition or multiplication (e.g. if $\frac{1}{4}$ of a set is 3, the whole set is $4 \times 3 = 12$)	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 7	Print Digital	Teacher	111-117 111-117	
			Print	Student	146-149	
		NUMICON 3 (NPC) Calculating 16 Download Activity 5b	Print Digital	Teacher	6 218	
	Adding and subtracting fractions with the same denominator within a whole (e.g. $\frac{1}{8} + \frac{2}{8} + \frac{3}{8} = \frac{6}{8}$)	NUMICON 3 (NPC) Number and the Number System 8 Using fraction notation to describe parts of a discrete set Activity 5	Print Digital	Teacher	111-117 111-117	
			Print	Student	146-149	
Number: financial maths	Representing currency values of mixed dollars and cents without using decimal notation (e.g. $2 and 50 cents)	NUMICON 3 (NPC) Number and the Number System 4 Partitioning 2- and 3- digit numbers with and without money	Print Digital	Teacher	88-91 88-91	NZ currency in digital eBooks
			Print	Student	58-61	

		NUMICON 3 (GMS) Measurement 4 Calculating with dollars and cents, and handling money	Print Digital	Teacher	74-79 74-79	NZ currency in digital eBooks
			Print	Student	126-129	
	Making amounts of money using one- and two-dollar coins and 5-, 10-, 20-, 50-, and 100-dollar notes	NUMICON 3 (NPC) Number and the Number System 4 Partitioning 2- and 3- digit numbers with and without money	Print Digital	Teacher	88-91 88-91	NZ currency in digital eBooks
			Print	Student	58-61	
		NUMICON 3 (GMS) Measurement 4 Calculating with dollars and cents, and handling money	Print Digital	Teacher	74-79 74-79	NZ currency in digital eBooks
			Print	Student	126-129	
	Using addition and subtraction to give change	NUMICON 3 (NPC) Calculating 2 Activity 10	Print Digital	Teacher	181 181	NZ currency in digital eBooks
			Print	Student	13	
		NUMICON 3 (NPC) Calculating 8 Adding and subtracting multiples of 10 and 100	Print Digital	Teacher	160-166 160-166	NZ currency in digital eBooks
			Print	Student	70-73	
		NUMICON 3 (GMS) Measurement 4 Calculating with dollars and cents, and handling money	Print Digital	Teacher	74-79 74-79	NZ currency in digital eBooks
			Print	Student	126-129	
Algebra: equations and relationships	Checking the truth of number sentences involving direct comparisons of whole numbers up to 1,000 (e.g. 313 < 330, true or false?)	NUMICON 3 (NPC) Number and the Number System 5 Ordering and structuring numbers to 1000	Print Digital	Teacher	92-99 92-99	
			Print	Student	66-69	
	Checking the truth of number sentences and completing open number sentences involving addition, subtraction, multiplication, or division (e.g. $217 - \_ = 105$, $12 \div 3 = 5 - 2$, true or false?)	NUMICON 2 (NPC) Pattern & Algebra 3 Activity 3b: Addition, subtraction	Print Download Digital	Teacher	2 57-63	
		NUMICON 3 (NPC) Calculating 6 Activity 4b Multiplication	Print Download Digital	Teacher	2 151	
		NUMICON 3 (NPC) Calculating 11 Activity 3b: Division	Print Download Digital	Teacher	4 185	
	Recognising, continuing, and creating growing number patterns	NUMICON 3 (NPC) Pattern & Algebra 2 Exploring steps of constant size through sequences of multiples	Print Digital	Teacher	49-54 49-54	
			Print	Student	34-37	

		NUMICON 3 (NPC) Pattern & Algebra 4 Extending sequences and finding differences	Print Digital	Teacher	61-67 61-67	
			Print	Student	94-97	
Measurement: measuring	Estimating and measuring length (cm and m), mass (g and kg), and capacity (ml and l), using tools with labelled markings and whole-number metric units	NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Print Digital	Teacher	69-73 69-73	
			Print	Student	122-125	
		NUMICON 3 (GMS) Measurement 5 Measuring and calculating with grams and Kilograms	Print Digital	Teacher	80-87 80-87	
			Print	Student	134-137	
	Comparing and ordering objects using whole-number metric units of length, mass, or capacity	NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Print Digital	Teacher	69-73 69-73	
			Print	Student	122-125	
		NUMICON 3 (GMS) Measurement 5 Measuring and calculating with grams and Kilograms	Print Digital	Teacher	80-87 80-87	
			Print	Student	134-137	
	Turning an object or person and describing how far they have turned, using full, half, quarter, and three-quarter turns as benchmarks	NUMICON 3 (GMS) Geometry 2 Identifying and comparing angles by size	Print Digital	Teacher	34-40 34-40	
			Print	Student	54-57	
	Identifying the duration of events using years, months, weeks, days, hours, minutes, and seconds	NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24 hour clock	Print Digital	Teacher	63-68 63-68	
			Print	Student	106-109	
	Describing the differences in duration between units of time (e.g. days vs weeks, months vs years)	NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24 hour clock	Print Digital	Teacher	63-68 63-68	
			Print	Student	106-109	
	Telling the time on analogue and digital clocks to the nearest 5 minutes and the nearest minute, using the language of minutes past the hour and to the hour	NUMICON 3 (GMS) Measurement 1 Telling the time to the minute on the 12-hour clock	Print Digital	Teacher	57-62 57-62	
		NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24 hour clock	Print Digital	Teacher	63-68 63-68	
			Print	Student	106-109	
	Measuring the perimeter of polygon using metric units	NUMICON 3 (GMS)	Print	Teacher	70	

		Measurement 3 Calculating area and perimeter Activity 2	Digital			
			Print	Student	106-109	
	Measuring the area of rectangles using squares of equal size	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter Activities 1-3	Print Digital	Teacher	77-84 78-85	
			Print	Student	110	
Geometry: shapes	Identifying, describing, visualising and sorting regular polygons with up to 10 sides	NUMICON 3 (GMS) Geometry 1 Investigating the parts and properties of polygons and polyhedra	Print Digital	Teacher	27-33 27-33	
			Print	Student	38-41	
		NUMICON 3 (GMS) Geometry 2 Identifying the faces, edges and vertices of solid 3D shapes Activity 4	Print Digital	Teacher	34-40 34-40	
			Print	Student	54-57	
Geometry: spatial reasoning	Recognising lines of symmetry in patterns or pictures, and creating or completing symmetrical patterns or pictures	NUMICON 3 (GMS) Geometry 3, Investigating symmetry Activity 5	Print Digital	Teacher	41-48 41-48	
			Print	Student	65	
		NUMICON 2 (GMS) Geometry 3 Investigating symmetry	Print Digital	Teacher	38-43 38-43	
Geometry: pathways	Following and creating a sequence of step-by-step instructions for moving people or objects to a different location, including half and quarter turns and the distance to be travelled	NUMICON 3 (GMS) Geometry 2 Identifying and comparing angles by size	Print Digital	Teacher	34-40 34-40	
			Print	Student	54-57	
		NUMICON 3 (GMS) Geometry 4 Using grids and grid references	Print Digital	Teacher	51-55 51-55	
			Print	Student	154-157	
	Use simple maps to locate objects and places relative to other objects and places.	NUMICON 3 (GMS) Geometry 4 Using grids and grid references	Print Digital	Teacher	51-55 51-55	
			Print	Student	154-157	
Statistics: Developing knowledge from data	Collecting categorical data and sorting the responses	NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Print Digital	Teacher	41-48 41-48	
			Print	Student	62-65	

		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Print Download Digital	Teacher	16-28 94-100	
	Collecting numerical data by asking an investigative question with a response that is a count or a discrete measurement (i.e. a whole number) (e.g. How many teeth have been lost by the students in our class? What are the shoe sizes in the class?)	NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres Activity 6	Print Digital	Teacher	69-73	
			Print	Student	122-125	
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Print Download Digital	Teacher	16-28 94-100	
Statistics: Visualisation of data	Creating data visualisations for categorical and numerical data	NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Print Digital	Teacher	41-48	
			Print	Student	62-65	
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Print Download Digital	Teacher	16-28 94-100	
Statistics: Interpretation of data	Describing data visualisations using the variable name and the context and giving the frequency for each category or number	NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Print Download Digital	Teacher	16-28 94-100	
	Answering questions about data visualisations, including which category has the most or least items and questions involving operations (e.g. How many teeth did our class lose in total?)	NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Print Digital	Teacher	41-48	
			Print	Student	62-65	
		NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Print Download Digital	Teacher	16-28 94-100	

Year 4

Strand and Element	Oct 2025	Resource Title (NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/ Section Reference	Notes
Number: number structures	Reading, writing, comparing, and ordering whole numbers up to 10,000 and representing them using base 10 structure	NUMICON 4 (NPC) Numbers and the Number System 1 Understanding place value in 4-digit numbers	Print Digital Print	Teacher Student	90-95 90-95 6-9	
		NUMICON 4 (NPC) Numbers and the Number System 2 Ordering and comparing numbers to 1000 and beyond	Print Digital Print	Teacher Student	96-100 96-100 14-17	
	Rounding whole numbers to the nearest thousand, hundred, or ten	NUMICON 4 (NPC) Numbers and the Number System 3 Estimating and rounding	Print Digital Print	Teacher Student	101-106 101-106 22-25	
	Rounding tenths to the nearest whole number	NUMICON 4 (NPC) Numbers and the Number System 6 Introducing decimal fractions Activity 3 Activity 9	Print Digital Print	Teacher Student	121, 125, 126 121, 125, 126 78-81	Rounding fractions - inferred Rounding decimals
	Counting forwards and backwards in 2s, 3s, 4s, 5s, 6s, 7s, 8s, 9s, 25s and 50s from multiples of the counting unit	NUMICON 4 (NPC) Pattern and Algebra 1 Exploring sequences and number patterns	Print Digital Print	Teacher Student	44-49 44-49 10-13	
		NUMICON 4 (NPC) Calculating 5 Developing fluency with multiplying facts to 12 × 12	Print Digital Print	Teacher Student	169-175 171-177 38-41	
	Counting in 10s, 100s, and 1,000s from any whole number up to 10,000	NUMICON 4 (NPC) Numbers and the Number System 1 Understanding place value in 4-digit numbers	Print Digital Print	Teacher Student	90-95 90-95 6-9	
		NUMICON 4 (NPC) Numbers and the Number System 2 Ordering and comparing numbers to 1000 and beyond	Print Digital Print	Teacher Student	96-100 96-100 14-17	
Number: operations	Adding and subtracting up to four-digit numbers	NUMICON 4 (NPC) Calculating 1 Using adding and subtracting facts and understanding inverse relationships	Print Digital Print	Teacher Student	142-148 144-150 2-5	
	Memorising multiplication and corresponding division facts for 2s to 10s	NUMICON 4 (NPC) Calculating 5 Developing fluency with multiplying facts to 12 × 12	Print Digital Print	Teacher Student	169-175 171-177 38-41	
		NUMICON 4 (NPC) Calculating 6	Print Digital	Teacher	176-182 178-184	

		Developing fluency with dividing facts to 12 × 12	Print	Student	42-25	
	Using place value and known and derived facts to multiply and divide mentally, including multiplying by 0 and 1 and dividing by 1	NUMICON 4 (NPC) Calculating 7 Mental strategies for multiplying and dividing by 10 and 100	Print Digital	Teacher	183-189 185-191	
			Print	Student	50-53	
	Multiplying two-digit and three-digit numbers by a one-digit number	NUMICON 4 (NPC) Calculating 10 Exploring the distributive property and developing written methods of multiplying	Print Digital	Teacher	201-205 203-208	eBook and printable pack
			Print	Student	86-89	
		NUMICON 4 (NPC) Calculating 12 Developing fluency with the short written method of multiplying	Print Digital	Teacher	212-216 216-220	
			Print	Student	98-101	
	Dividing up to a three-digit whole number by a one-digit divisor, with no remainder (e.g. $65 \div 5$)	NUMICON 4 (NPC) Calculating 13 Developing fluency with the short written method of dividing	Print Digital	Teacher	217-221 221-225	
			Print	Student	102-105	
Number: rational numbers	Reading, writing, and representing tenths as fractions and decimals	NUMICON 4 (NPC) Numbers and the Number System 6 Introducing decimal fractions	Print Digital	Teacher	120-126 120-128	eBook and printable pack
			Print	Student	78-81	
	Comparing and ordering tenths as fractions and decimals	NUMICON 4 (NPC) Numbers and the Number System 6 Introducing decimal fractions	Print Digital	Teacher	120-126 120-128	eBook and printable pack
			Print	Student	78-81	
	Dividing one- and two-digit whole numbers by 10 to make decimals and identify tenths	NUMICON 4 (NPC) Calculating 11 Using multiplying facts to solve dividing problems	Print Digital	Teacher	206-211 209-215	eBook and printable pack
			Print	Student	90-93	
	Multiplying decimal tenths by 10	NUMICON 4 (NPC) Numbers and the Number System 8 Introducing decimal fractions with two places Activity 3	Print Digital	Teacher	135, 139 137, 141	
			Print	Student	126-129	
	Memorising and using the decimal equivalent of $\frac{1}{2}$ and fractions with denominators of 10	NUMICON 4 (NPC) Numbers and the Number System 6 Introducing decimal fractions	Print Digital	Teacher	120-126 120-128	eBook and printable pack
			Print	Student	78-81	
	Multiplying decimal tenths by 10	NUMICON 4 (NPC) Numbers and the Number System 6 Introducing decimal fractions	Print Digital	Teacher	120-126 120-128	eBook and printable pack
			Print	Student	78-81	
	Comparing and ordering fractions with the same numerator or same denominator	NUMICON 4 (NPC) Numbers and the Number System 5 Fractions and recognizing part-whole relationships	Print Digital	Teacher	113-119 113-119	
			Print	Student	62-65	
	Identifying when two fractions are equivalent, using representations	NUMICON 4 (NPC) Numbers and the Number System 5	Print Digital	Teacher	113-119 113-119	

		Fractions and recognizing part-whole relationships	Print	Student	62-65	
	Relating fractions, improper fractions, and mixed numbers to their position on a number line	NUMICON 4 (NPC) Numbers and the Number System 5	Print Digital	Teacher	113-119 113-119	
		Fractions and recognizing part-whole relationships	Print	Student	62-65	
	Finding a unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. 1/3 of 300)	NUMICON 4 (NPC) Calculating 11	Print Digital	Teacher	206-211 209-215	eBook and printable pack
		Using multiplying facts to solve dividing problems	Print	Student	90-93	
	Finding the whole set or amount when given a unit fraction, using multiplication and division facts (e.g. 1/4 of a set is 7, what is the whole set?)	NUMICON 4 (NPC) Calculating 11	Print Digital	Teacher	206-211 209-215	eBook and printable pack
		Using multiplying facts to solve dividing problems	Print	Student	90-93	
	Adding and subtracting fractions with the same denominators, including beyond a whole (e.g. $\frac{3}{8}+\frac{3}{8}+\frac{3}{8}=\frac{9}{8}=1\frac{1}{8}$)	NUMICON 4 (NPC) Numbers and the Number System 5	Print Digital	Teacher	113-119 113-119	
		Fractions and recognizing part-whole relationships	Print	Student	62-65	
	Adding and subtracting decimals to one decimal place (e.g. 1.3 + 0.2 = 1.5)	NUMICON 5 (NPC) Calculating 1	Print Digital	Teacher	128-133 130-135	
		Developing fluency with adding and subtracting calculations and understanding inverse relationships	Print	Student	18-21	
		NUMICON 5 (NPC) Calculating 2	Print Digital	Teacher	134-139 136-141	
		Strategies for bridging when adding and subtracting mentally	Print	Student	22-25	
	Using known multiplication and division facts to scale a quantity (e.g. to double or halve a recipe)	NUMICON 4 (NPC) Calculating 7	Print Digital	Teacher	183-189 185-191	
		Mental strategies for multiplying and dividing by 10 and 100	Print	Student	50-53	
Number: financial maths	Representing amounts of currency using different combinations of denominations (e.g. making $5 and 80 cents in multiple ways using play money)	NUMICON 4 (GMS) Measurement 2	Print Digital	Teacher	69-76 73-79	NZ currency in digital eBook
		Calculating with money amounts	Print	Student	130-133	NZ currency in Student Book
	Calculating the total cost of several items costing whole-dollar amounts and with different prices, or of multiples of the same item, including giving change	NUMICON 4 (NPC) Calculating 1 Using adding and subtracting facts and understanding inverse relationship Activity 4	Print Digital	Teacher	145-146, 148 147-148, 150	NZ currency in digital eBooks
			Print	Student	2-5	
		NUMICON 4 (NPC) Calculating 9	Print Digital	Teacher	198, 200 200, 202	NZ currency in digital eBooks
		Developing fluency with the column method of subtracting Activity 5	Print	Student	70-73	
		NUMICON 4 (NPC) Calculating 14	Print Digital	Teacher	226-230 226-230	NZ currency in digital eBooks
			Print	Student	106-109	

			Solving problems involving more than one step				
		NUMICON 4 (GMS) Measurement 2 Calculating with money amounts	Print Digital Print	Teacher Student	69-76 73-79 130-133	NZ currency in digital eBook NZ currency in Student Book
Algebra: equations and relationships	Checking the truth of number sentences and completing open number sentences involving addition and subtraction (e.g. $8205 - 4721 = 3484$, true or false?; $4200 - \_ = 4001$)	NUMICON 4 (NPC) Pattern and Algebra 2 Exploring inverse relationships	Print Digital Print	Teacher Student	50-56 50-56 46-49	
		NUMICON 4 (NPC) Pattern and Algebra 3 Exploring 'equals' in balancing number sentences	Print Digital Print	Teacher Student	57-62 57-62 82-85	
	Checking the truth of number sentences and completing open number sentences involving multiplication and division (e.g. $11 \times 7 = 78$, true or false?; $\_ \div 10 = 12$).	NUMICON 4 (NPC) Calculating 10 Exploring the distributive property and developing written methods of multiplying Activity 6	Print Digital Print	Teacher Student	207-208 207-208 86-89	eBook and printable pack
		NUMICON 4 (NPC) Pattern and Algebra 3 Exploring 'equals' in balancing number sentences	Print Digital Print	Teacher Student	57-62 57-62 82-85	
	Recognising, continuing, creating, and describing growing patterns (including numerical and non-numerical patterns) that change by adding, subtracting, or multiplying by a constant whole number (e.g. $5, 7, 9, 11, \ldots$; $3, 6, 12, 24, \ldots$)	NUMICON 4 (NPC) Pattern and Algebra 5 Looking for growing patterns in problem solving	Print Digital Print	Teacher Student	70-75 70-75 114-117	
Measurement: measuring	Using familiar objects (e.g. body parts) and experiences (e.g. time taken to travel to school, the temperature outside) to create estimation benchmarks	NUMICON 4 (GMS) Measurement 1 Finding times and durations, and using the 24- hour clock	Print Digital Print	Teacher Student	60-68 63-71 110-113	
		NUMICON 4 (GMS) Measurement 3 Understanding and using units of length and distance	Print Digital Print	Teacher Student	77-83 80-86 134-137	
	Using the appropriate tool for measuring length, mass (weight), and capacity in mixed units (e.g. 1 m and 23 cm, 10 kg and 3 g, 2 L and 500 mL)	NUMICON 4 (GMS) Measurement 3 Understanding and using units of length and distance	Print Digital Print	Teacher Student	77-83 80-86 134-137	
		NUMICON 4 (GMS) Measurement 4 Understanding and using units of mass	Print Digital Print	Teacher Student	84-90 87-93 138-141	
		NUMICON 4 (GMS) Measurement 5 Understanding and using units of capacity	Print Digital Print	Teacher Student	91 -97 94-100 142-145	
	Measuring temperature in degrees Celsius	NUMICON 4 (GMS) Measurement 1	Print Digital	Teacher	60-68 63-71	

			Print	Student	110-113	
		Finding times and durations, and using the 24- hour clock Activity 8				
	Measuring the perimeter of polygons using metric units (mm, cm, and m)	NUMICON 4 (GMS) Measurement 6	Print Digital	Teacher	98-104 101-107	
		Understanding perimeter and area	Print	Student	150-153	
	Measuring the areas of irregular shapes covered with squares and half squares	NUMICON 4 (GMS) Measurement 6	Print Digital	Teacher	98-104 101-107	
		Understanding perimeter and area	Print	Student	150-153	
	Calculating the areas of rectangular figures (including squares) using multiplication of side lengths	NUMICON 4 (GMS) Measurement 6	Print Digital	Teacher	102, 104 105, 107	
		Understanding perimeter and area Activity 5	Print	Student	150-153	
	Measuring the volumes of rectangular prisms (cuboids) by filling them with identical 3D blocks	NUMICON 5 (GMS) Measurement 4	Print Digital	Teacher	85-94 86-97	eBook and printable pack
		Estimating volume and capacity	Print	Student	118-121	
	Estimating the size of angles by comparing them to 90, 180, and 360 degrees	NUMICON 4 (GMS) Geometry 3	Print Digital	Teacher	45-50 46-51	
		Investigating angles in shapes	Print	Student	74-77	
		NUMICON 3 (GMS) Geometry 2	Print Digital	Teacher	34-40 34-40	
		Identifying and comparing angles by size	Print	Student	54-57	
	Telling the time on analogue and digital clocks to the nearest minute	NUMICON 4 (GMS) Measurement 1	Print Digital	Teacher	60-68 63-71	
		Finding times and durations using the 24 hour clock	Print	Student	110-113	
	Measuring duration in hours, minutes, and seconds, including mixed time units (e.g. 1h and 42mins, 3mins and 21s)	NUMICON 4 (GMS) Measurement 1	Print Digital	Teacher	60-68 63-71	
		Finding times and durations using the 24 hour clock	Print	Student	110-113	
	Finding equivalent durations of time using different units (e.g. 3 weeks is 21 days; 90 seconds = 1.5 minutes; 48 hours = 2 days)	NUMICON 4 (GMS) Measurement 1	Print Digital	Teacher	60-68 63-71	
		Finding times and durations using the 24 hour clock	Print	Student	110-113	
Geometry: shapes	Identifying, classifying, and describing the attributes of regular and irregular polygons of up to 12 sides, using edges, vertices, and angles	NUMICON 3 (GMS) Geometry 1	Print Digital	Teacher	27-33 27-33	
		Investigating the parts and properties of polygons and polyhedra	Print	Student	38-41	
		NUMICON 3 (GMS) Geometry 2	Print Digital	Teacher	38-40 38-40	
		Identifying and comparing angles by size Activity 4	Print	Student	54-57	
		NUMICON 4 (GMS) Geometry 1	Print Digital	Teacher	28-36 28-36	
		Classifying triangles and quadrilaterals	Print	Student	26-29	

	Identifying the number of lines of symmetry in 2D shapes	NUMICON 4 (GMS) Geometry 2	Print Digital	Teacher	37-44 37-45	eBook and printable pack
		Understanding reflective symmetry	Print	Student	54-57	
Geometry: spatial reasoning	Visualising 3D shapes and connecting them with 2D diagrams, verbal descriptions, and the same shapes drawn from different perspectives	NUMICON 5 (GMS) Measurement 4	Print Digital	Teacher	85-94 85-94	
		Estimating volume and capacity	Print	Student	118-121	
	Performing one-step transformations (reflections, translations, rotations) on 2D shapes	NUMICON 4 (GMS) Geometry 2	Print Digital	Teacher	37-44 37-45	eBook and printable pack
		Understanding reflective symmetry	Print	Student	54-57	
Geometry: pathways	Use alphanumeric and general grid references to identify regions and plot positions on a grid map	NUMICON 4 (GMS) Geometry 4	Print Digital	Teacher	51-58 52-61	eBook and printable pack
		Reading and plotting positions using coordinates	Print	Student	118-121	
Statistics: Developing knowledge from data	Collecting numerical data, and, if needed, rounding to an appropriate unit or part of a unit, based on the context (e.g. How many skips can we do in 30 seconds? How long does it take us to run 1000 m?)	NUMICON 4 (GMS) Statistics and probability 1 Exploring line graphs and investigating probability	Print Download Digital	Teacher	22-32 109-114	
		NUMICON 4 (NPC) Measurement 3	Print Digital	Teacher	81 84	
		Understanding and using units of length and distance Activity 5	Print	Student	136	
Statistics: Visualisation of data	Creating dot-plot or bar-graph data visualisations	NUMICON 4 (GMS) Statistics and probability 1 Exploring line graphs and investigating probability	Print Download Digital	Teacher	22-32 109-114	
		NUMICON 4 (NPC) Measurement 3	Print Digital	Teacher	81 84	
		Understanding and using units of length and distance Activity 5	Print	Student	136	
Statistics: Interpretation of data	Answering questions about the frequency of a particular value in dot plots	NUMICON 2 (GMS) Statistics and probability 1 Collecting, using and understanding categorical data Activity 1	Print Download Digital	Teacher	2, 6 103, 107	
	Answering questions about individual values in a dot plot, while referring to the context	NUMICON 2 (GMS) Statistics and probability 1 Collecting, using and understanding categorical data Activity 1	Print Download Digital	Teacher	2, 6 103, 107	
	Interpreting data visualisations	NUMICON 4 (GMS) Statistics and probability 1 Exploring line graphs and investigating probability	Print Download Digital	Teacher	22-32 109-114	
	Distinguishing between when to use a particular value or the frequency for a given value when answering questions about dot	NUMICON 2 (GMS)	Print Download	Teacher	2, 6	

plots (e.g. How many pets does the person with the most pets have? What's the most common number of pets that anyone has?)	Statistics and probability 1 Collecting, using and understanding categorical data Activity 1	Digital		103, 107	

Year 5

Strand and Element	Oct 2025	Resource Title (NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/ Section Reference	Notes
Number: number structures	Reading, writing, comparing, and ordering whole numbers up to 1,000,000 and representing them using base 10 structure	NUMICON 5 (NPC) Numbers and the Number system 1 Working with numbers up to a million	Print Digital	Teacher	82-87 84 - 89	
			Print	Student	2-5	
	Finding factor pairs for numbers that result from multiplying any two whole numbers between 1 and 10	NUMICON 5 (NPC) Pattern & Algebra 3 Properties of number Activity 4	Print Digital	Teacher	57 59	
			Print	Student	76	
	Rounding whole numbers to the nearest hundred thousand, ten thousand, thousand, hundred, or ten	NUMICON 5 (NPC) Numbers and the Number system 4 Estimating and Rounding Activity 4	Print Digital	Teacher	101 – 107 103 - 109	
			Print	Student	26-29	
	Rounding tenths or hundredths to the nearest whole number	NUMICON 5 (NPC) Numbers and the Number system 4 Estimating and Rounding Activity 5, 6	Print Digital	Teacher	104 -105 106 - 107	
			Print	Student	26-29	
	Counting forwards and backwards in 11s and 12s from multiples of the counting unit	NUMICON 4 (NPC) Calculating 5 Developing fluency with multiplying facts to 12 x 12 Extend to counting	Print Digital	Teacher	169-175 171-177	
			Print	Student	38-41	
		NUMICON 4 (NPC) Calculating 6 Developing fluency with dividing facts to 12 x 12 Extend to counting	Print Digital	Teacher	176-182 178-184	
			Print	Student	42-45	
	Counting in 1,000s, 10,000s, and 100,000s from any whole number up to 100,000	NUMICON 5 (NPC) Pattern & Algebra 1 Activity 3 Whole class counting	Print Digital	Teacher	45-48 44-47	
		NUMICON 5 (NPC) Numbers and the Number system 1 Working with numbers up to a million Activity 6	Print Digital	Teacher	86 88	
			Print	Student	4	
	Counting backwards through 0 to include negative whole numbers	NUMICON 5 (NPC)	Print	Teacher	108 -113	

		Numbers and the Number system 5 Working with Negative numbers	Digital		110-115	Negatives introduced Numicon 4
			Print	Student	42-45	
Number: operations	Adding and subtracting increasingly large whole numbers	NUMICON 5 (NPC) Calculating 6 Written methods of subtracting	Print Digital	Teacher	147 – 153 149-155	
			Print	Student	62-65	
	Memorising multiplication and corresponding division facts for 2s to 12s	NUMICON 5 (NPC) Calculating 4 Developing fluency with multiplying and dividing	Print Digital	Teacher	147 – 153 149-155	
			Print	Student	46,47	
	Applying mental strategies, number facts, derived facts, factor pairs, and multiples to multiply and divide increasingly large numbers	NUMICON 5 (NPC) Calculating 4 Developing fluency with multiplying and dividing	Print Digital	Teacher	147 – 153 149-155	
			Print	Student	46,47	
		NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising	Print Digital	Teacher	62-68 64-70	
			Print	Student	106-109	
	Multiplying three-digit and four-digit numbers by a one-digit number and multiplying two two-digit numbers	NUMICON 5 (NPC) Calculating 7 Multiplying and dividing by 10, 100 and 1000	Print Digital	Teacher	166-172 168-174	
			Print	Student	66-69	
		NUMICON 5 (NPC) Calculating 12 Written methods of multiplying	Print Digital	Teacher	195-204 197-206	
			Print	Student	114-117	
	Dividing up to four-digit whole numbers by a one-digit divisor, with a remainder (e.g. $278 \div 4 = 69$ remainder 2)	NUMICON 5 (NPC) Calculating 13 Written methods of dividing	Print Digital	Teacher	200-204 202-206	
			Print	Student	122-125	
Number: rational number	Reading, writing, and representing tenths and hundredths as fractions and decimals	NUMICON 5 (NPC) Numbers and the Number system 3 Understanding decimals Activities 2, 3, 6	Print Digital	Teacher	92-98 94-100	
			Print	Student	10-12	
	Comparing tenths and hundredths as fractions or decimals	NUMICON 5 (NPC) Numbers and the Number system 3 Understanding decimals	Print Digital	Teacher	92 – 98 94-100	
			Print	Student	10-13	
	Comparing and ordering numbers with up to two decimal places (e.g. $0.12 < 0.2$, $3.55 < 3.84$)	NUMICON 5 (NPC) Numbers and the Number system 3	Print Digital	Teacher	98 100	

		Understanding decimals Activity 7, 8	Print	Student	13	
Dividing one-, and two-digit whole numbers by 10 or 100 to make decimals and identify tenths and hundredths places	NUMICON 5 (NPC) Calculating 7 Multiplying and dividing by 10, 100, 1000	Print Digital	Teacher	166-172 168-174	
		Print	Student	66-69	
Comparing fractions where one denominator is a multiple of the other	NUMICON 5 (NPC) Numbers and the Number system 6 Comparing and Ordering fractions	Print Digital	Teacher	114 -118 116- 120	
		Print	Student	50-53	
Recognising families of equivalent fractions	NUMICON 5 (NPC) Numbers and the Number system 6 Activities 2-5	Print Digital	Teacher	114 -118 116 - 120	
		Print	Student	53	
Recognising equivalent mixed numbers and improper fractions	NUMICON 5 (NPC) Numbers and the Number system 2 Exploring Equivalents with fractions	Print Digital	Teacher	88-93 90-95	
		Print	Student	6 - 9	
Memorising and using decimal equivalents of $\frac{1}{2}, \frac{1}{4}$, and $\frac{3}{4}$ and fractions with denominators or 10 or 100	NUMICON 5 (NPC) Calculating 11 Percentages Activity 6	Print Digital	Teacher	193-194 195 - 196	
		Print	Student	94-97	
Finding common percentages (10%, 25%, 50%) of whole numbers	NUMICON 5 (NPC) Numbers and the Number system 7 Solving problems with percentages	Print Digital	Teacher	125 121-127	
		Print	Student	102-105	
	NUMICON 5 (NPC) Calculating 11 Percentages	Print Digital	Teacher	191-194 193 - 196	
		Print	Student	94-97	
	NUMICON 5 (NPC) Download Calculating 11 Activity 4b, 4c	Print Digital	Teacher	5, 6 195 - 196	10%, 25%
Finding the whole (100%) when given 25% or 50%	NUMICON 4 (NPC) Download Calculating 11 Activity 5b	Print	Teacher	6 – 10 213 - 214	10%
Converting common percentages (10%, 25%, 50%) to fractions and decimals	NUMICON 5 (NPC) Numbers and the Number system 7 Solving problems with percentages	Print	Teacher	119-125 121-127	
		Print	Student	102-105	

		NUMICON 5 (NPC) Calculating 11 Percentages Activity 6	Print Digital	Teacher	193-194 195-196	
			Print	Student	94-97	
	Finding a non-unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. $\frac{2}{3}$ of 24)	NUMICON 5 (NPC) Calculating 14 Calculations fractions of amounts	Print	Teacher	205-210 207-212	
			Print	Student	126-129	
	Multiplying numbers with up to two decimal places by 10 and 100	NUMICON 5 (NPC) Calculating 4 Developing fluency with multiplying and dividing Activities 8, 9	Print	Teacher	151-152 153-154	
			Print	Student	49	
		NUMICON 5 (NPC) Calculating 7 Multiplying and dividing by 10, 100, 1000	Print Digital	Teacher	166-172 168-174	
			Print	Student	66-69	
	Finding a whole set from a fractional part of the set (e.g. if 8 is $\frac{2}{5}$ of a set, what is the whole set?)	NUMICON 4 (NPC) Download Calculating 1 1 Activity 5b	Print	Teacher	208 -215 213	
	Adding and subtracting fractions with the same denominator or when one denominator is a multiple of the other, including improper fractions (e.g. $\frac{2}{3} + \frac{1}{9} = \frac{7}{9}$)	NUMICON 5 (NPC) Numbers and the Number system 2 Exploring equivalence with fractions	Print	Teacher	90-95 92-97	
			Print	Student	6-9	
		NUMICON 5 (NPC) Calculating 1 Developing fluency with Adding and subtracting Activity 4	Print	Teacher	131 130	
			Print	Student	20	
		NUMICON 5 (NPC) Calculating 2 Strategies when adding and subtracting	Print Digital	Teacher	137 136	
			Print	Student	24	
		NUMICON 5 (NPC) Calculating 15 Calculating with fractions Activities 1-4	Print Digital	Teacher	211-215 215 - 219	
			Print	Student	138-140	
	Adding and subtracting decimals to two decimal places (e.g. $1.31 + 0.22 = 1.53$)	NUMICON 5 (NPC) Calculating 1	Print Digital	Teacher	131-132 130	

		Developing fluency with Adding and subtracting Activity 5	Print	Student	21	
		NUMICON 5 (NPC) Calculating 2 Strategies when adding and subtracting Activities 5 and 6	Print Digital	Teacher	138-139 137-138	
			Print	Student	25	
		NUMICON 5 (NPC) Calculating 3 Further strategies for adding and subtracting Activities 4, 5, 6	Print Digital	Teacher	143-145 142 - 144	
			Print	Student	32, 33	
		NUMICON 5 (NPC) Calculating 6 Written Methods of adding Activity 5	Print Digital	Teacher	164-165 162 - 163	
			Print	Student	61	
Number: financial maths	Calculating the total cost of items costing dollars and cents and the change from the nearest ten dollars	NUMICON 5 (NPC) Calculating 1 Developing fluency with Adding and subtracting Activity 2	Print Digital	Teacher	129-130 130-131	NZ currency in digital eBooks
			Print	Student	19	
		NUMICON 5 (NPC) Calculating 5 Written Methods of adding Activity 3	Print Digital	Teacher	156-158 156 - 158	NZ currency in digital eBooks
			Print	Student	60	
		NUMICON 5 (NPC) Calculating 6 Written methods of subtraction Activity 3	Print Digital	Teacher	162-163 162-163	NZ currency in digital eBooks
			Print	Student	64	
	Representing currency values of mixed dollars and cents using decimal notation	NUMICON 3 (NPC) Numbers and the Number System 4 Partitioning 2- and 3-digit numbers with and without money Activities 3, 4	Print Digital	Teacher	90 90	NZ currency in digital eBooks
			Print	Student	59, 60	
		NUMICON 4 (GMS) Measurement 2 Calculating with money amounts	Print Digital	Teacher	69-76 72-79	NZ currency in digital eBooks
			Print	Student	130-133	
	Rounding money amounts to the nearest dollar	NUMICON 4 (GMS) Measurement 2	Print Digital	Teacher	70-71 73-74	NZ currency in digital eBooks

			Print	Student	130	
		Calculating with money amounts Activity 2	Print	Student	130	
		NUMICON 5 (NPC) Numbers and the Number System 4 Estimating and Rounding Activity 6	Print Digital	Teacher	105 - 106 103-104	NZ currency in digital eBooks
			Print	Student	28	
Algebra: equations and relationships	Checking the truth of number sentences and completing open number sentences (e.g. $999,999 - \_ = 899,999$)	NUMICON 6 (NPC) Pattern & Algebra 3 Using algebra to solve problems Activity 1	Print Digital	Teacher	52-53 52-53	Numicon has a lesson at this level involving reasoning for general statements as being always, sometimes and never true. Numicon 5, Pattern & Algebra 6
			Print	Student	86	
	Completing number sentences that involve addition and subtraction by using equality (=) and inequality (<, >) symbols (e.g. 2,456 + 203,938 3,456 + 231,930; $2,456 \times 2 \quad 1,228 \times 4$)	NUMICON 5 (NPC) Pattern & Algebra 1 Exploring sequences and number patterns	Print Digital	Teacher pages	74 70	
			Print	Student	150-151	
		NUMICON 5 (NPC) Pattern & Algebra 5 Using equivalence to solve problems	Print Digital	Teacher pages	69-74 71-76	
			Print	Student	150-153	
	Recognising, continuing, creating, and describing growing patterns that change by a constant amount (e.g. 3, 4.5, 6, 7.5 ...)	NUMICON 5 (NPC) Pattern & Algebra 1 Exploring sequences and number patterns	Print Digital	Teacher	69-70 70-71	
			Print	Student	34-37	
		NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising	Print Digital	Teacher	62-68 64-70	
			Print	Student	106-109	
Measurement: measuring	Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Print Digital	Teacher	63, 69-75 64, 70 - 76	
			Print	Student	98-100	
		NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Print Digital	Teacher	85-94 86-95	
			Print	Student	118-121	
		NUMICON 5 (NPC) Numbers and the Number system 5	Print Digital	Teacher	108-110 110-112	

		Working with Negative Numbers	Print	Student	43-44	
		NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures	Print Digital	Teacher	108-116 113- 121	
			Print	Student	146-149	
	Converting metric units of length (m and cm)	NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Print Digital	Teacher	69-73 69-73	
			Print	Student	122-125	
	Classifying and constructing angles up to 180°, using a protractor	NUMICON 5 (GMS) Geometry 1 Measuring angles	Print Digital	Teacher	25-33 26-34	
			Print	Student	14-17	
	Describing and classifying angles and turns using the terms acute, right, obtuse, straight, and reflex	NUMICON 5 (GMS) Geometry 1 Measuring angles	Print Digital	Teacher	25-33 26-34	
			Print	Student	14-17	
	Calculating the perimeters of regular polygons and other 2D shapes with straight sides	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Print Digital	Teacher	77-84 78 - 85	
			Print	Student	110-113	
	Approximating the areas of irregular shapes covered with squares, half squares, and partial squares	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Print Digital	Teacher	77-84 78 - 85	Full squares
			Print	Student	110-113	
		NUMICON 5 (GMS) Measurement 5 Working with area and perimeter	Print Digital	Teacher	95-100 98 - 103	
			Print	Student	130-133	
		NUMICON 6 (GMS) Measurement 2 Area of 2D shapes	Print Digital	Teacher	64-72 65-73	Partial squares
			Print	Student	50-53	
	Recognising that shapes with the same area can have different perimeters, and vice versa	NUMICON 5 (GMS) Measurement 5 Working with area and perimeter Activity 1	Print Digital	Teacher	95-100 98 - 103	
			Print	Student	130-133	
		NUMICON 6 (NPC) Investigating 1 Making Squares	Print Digital	Teacher	220-222 222-224	

			Print Digital	Teacher	96-102 97-103	
	Calculating the areas of rectangles (including squares) using multiplication of side lengths	NUMICON 5 (NPC) Calculating 2 Strategies for bridging when adding and subtracting mentally Activities 1-3	Print	Student	10-11	
		NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Print Digital	Teacher	77-84 78-85	
			Print	Student	110-113	
	Measuring the volumes of rectangular prisms (cuboids) filled with centi-cubes by determining the number of cubes in each layer and then multiplying by the number of total layers	NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Print Digital	Teacher	85-94 86-95	
			Print	Student	118-121	
		NUMICON 5 (GMS) Measurement 7 Problem solving involving volume and capacity Activity 5	Print Digital	Teacher	114-116 115-117	
			Print	Student	149	
	Telling the time on analogue and digital clocks	NUMICON 3 (GMS) Measurement 2 Exploring units of time including 24 hour clock	Print Digital	Teacher	63-68 63-68	
			Print	Student	106-109	
	Finding the duration of periods of time involving a.m. and p.m. notation and 24-hour time	NUMICON 4 (GMS) Measurement 1 Finding times and durations using the 24-hour clock	Print Digital	Teacher	60-68 63-71	
			Print	Student	110-113	
		NUMICON 5 (NPC) Calculating 2 Using bridging strategies	Print Digital	Teacher	136-137 138-139	
			Print	Student	23	
		NUMICON 5 (GMS) Measurement 7 Problem solving involving volume and capacity Activity 2	Print Digital	Teacher	114-116 115-117	
			Print	Student	149	
Geometry: shapes	Identifying, classifying, and describing the attributes of prisms, using cross sections, faces, edges, and vertices	NUMICON 6 (GMS) Measurement 3 3D shapes – nets and surface area	Print Digital	Teacher	73- 78 73- 78	
			Print	Student	62-65	
	Identifying parallel and perpendicular lines, including those forming the sides of polygons	NUMICON 3 (GMS) Geometry 1 Investigating the parts and properties of polygons and polyhedra	Print Digital	Teacher	27-33 27-33	
			Print	Student	38-41	

		Activities 1 and 2				
Geometry: spatial reasoning	Connecting 3D shapes with nets	NUMICON 6 (GMS) Measurement 3 3D shapes – nets and surface area	Print Digital	Teacher	73- 78 73- 78	
			Print	Student	62-65	
	Describing the transformations performed (reflections, translations, rotations) on 2D shapes	NUMICON 5 (GMS) Geometry 2 Transformations	Print Digital	Teacher	34 - 42 37-45	Reflections Translations
			Print	Student	38-41	
		NUMICON 6 (GMS) Geometry 1 2D shapes and angles	Print Digital	Teacher	25-34 25-34	
			Print	Student	38	
		NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants	Print Digital	Teacher	43-51 43-51	Transformations
			Print	Student	98	
Geometry: pathways	Interpreting and creating grid maps to plot positions and pathways, using grid references and directional language, including the four main compass points	NUMICON 3 (GMS) Geometry 4 Using grids and grid references	Print Digital	Teacher	48- 55 52-59	
			Print	Student	154	
		NUMICON 4 (GMS) Geometry 4 Reading and plotting positions using coordinates	Print Digital	Teacher	51-58 48- 55	
			Print	Student	118-121	
Statistics: Developing knowledge from data	Collecting continuous numerical data by taking measurements, and then applying specified rounding rules	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Print Digital	Teacher	63, 69-75 64, 70 - 76	
			Print	Student	98-100	
	Collecting bivariate data with two categorical variables (e.g. what students in our class do at lunch time, and their gender)	NUMICON 6 (GMS) Statistics and Probability 1 Using Graphs for statistical information	Print Download Digital	Teacher	14-25 110-116	eBook and printable pack
Statistics: Visualisation of data	Creating tables for continuous numerical data, using groupings (e.g. 0–0.99, 1–1.99, 2–2.99)					New content coming
	Creating clustered bar graphs for paired categorical data	NUMICON 5 (GMS) Statistical investigations and data visualisations Activity 2	Print Download Digital	Teacher	14-25 25	S eBook and printable pack
Statistics:	Answering questions about the frequency of particular values or groups of values from a table for continuous numerical data	NUMICON 5 (GMS) Measurement 2	Print Download Digital	Teacher	62-76 64-77	

		Interpreting charts & graphs	Print	Student	98-101	
Interpretation of data		NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 - 130	eBook and printable pack
		NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical information	Print Download Digital	Teacher	14-25 110-116	eBook and printable pack
	Answering questions about bivariate data in which a specific category in one variable appears more frequently than a specific category in another variable	NUMICON 3 (GMS) Statistics and Probability 1 Using graphs and investigating probability	Print Download Digital	Teacher	16-22 94-100	Introduction to bivariate data
		NUMICON 4 (GMS) Statistics and Probability 1 Exploring line graphs and investigating probability	Print Download Digital	Teacher	22-27 108-114	Bivariate data eBook and printable pack
		NUMICON 5 (GMS) Measurement 2 Interpreting charts & graphs Activity 3	Print Digital	Teacher	67-69 64-77	Multivariate data
			Print	Student	99	
	Interpreting data visualisations	NUMICON 5 (GMS) Measurement 2 Interpreting charts & graphs	Print Digital	Teacher	67-69 64-77	
			Print	Student	98-101	
		NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 -130	eBook and printable pack
Probability: Experimental probability	Conducting repeated chance experiments or games, identifying the outcomes, and describing differences between them using likelihood vocabulary	NUMICON 2 (GMS) Statistics and Probability 1 Collecting, using and understanding categorical data	Print - Download Digital	Teacher	6 - 11 103-108	eBook and printable pack
	Identifying the likelihood of an everyday event as being impossible, unlikely, even-chance, likely, or certain (e.g. the event 'the sun will rise tomorrow' is certain)	NUMICON 1 (GMS) Statistics and Probability 1 Understanding pictograms, data and chance	Print - Download Digital	Teacher	17-30 96 - 100	eBook and printable pack
	Placing everyday events on a number line according to their likelihood (e.g. placing the event 'you will eat something later today' between $\frac{1}{2}$ and 1 as 'likely' or 'very likely')	NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 - 130	eBook and printable pack

Year 6

Strand and Element	Oct 2025	Resource Title (NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/ Section Reference	Notes
Number: number structures	Reading, writing, comparing, and ordering any whole number and representing them using base 10 structure	NUMICON 5 (NPC) Numbers and the Number system 1 Working with numbers up to a million	Print Digital	Teacher	82-87 84-89	
			Print	Student	2 - 5	
		NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million	Print Digital	Teacher	72- 77 74-80	
			Print	Student	2-4	
	Finding factor pairs for numbers that result from multiplying any two whole numbers between 1 and 12	NUMICON 5 (NPC) Calculating 4 Developing fluency with multiplying and dividing Activity 1	Print Digital	Teacher	147-148 149-151	Factor relationships
			Print	Student	46	
	Counting forwards and backwards with positive whole numbers, including working with negative numbers (e.g. starting at -6 and counting backwards in 2s)	NUMICON 4 (NPC) Numbers and the Number system 4 Introducing negative numbers Activity 1	Print Digital	Teacher	108 110	
			Print	Student	58	
		NUMICON 5 (NPC) Numbers and the Number system 5 Working with negative numbers	Print Digital	Teacher	108 109	
			Print	Student	42	
		NUMICON 6 (NPC) Preparing for formal testing 3 Activity 6	Print Digital	Teacher	204 206	Counting in 1's
	Recognising square and cube numbers and the notation for squared (2) and cubed (3)	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising	Print Digital	Teacher	65-68 65-68	
			Print	Student	106-109	
		NUMICON 5 (NPC) Measurement 4 Estimating Volume and capacity	Print Digital	Teacher	85-96 86-97	
			Print	Student	118-121	
	Memorising the square numbers to 144 and cube numbers to 125	NUMICON 5 (NPC) Pattern & Algebra 4	Print Digital	Teacher	65-68 65-68	

			Print	Student	106-109	
	Rounding hundredths to the nearest whole number or tenth	NUMICON 5 (NPC) Numbers and the Number system 4 Estimating and rounding Activity 6	Print Digital	Teacher	105 106	
			Print	Student	28	
	Rounding whole numbers to the nearest million, hundred thousand, ten thousand, thousand, hundred, or ten	NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million and decimals Activity 3	Print Digital	Teacher	72-77 74-79	
			Print	Student	4	
		NUMICON 6 (NPC) Calculating 3 Estimating Rounding and equivalence	Print Digital	Teacher	106-114 108-116	
			Print	Student	26-29	
Number: operations	Calculating expressions using the order of operations	NUMICON 5 (NPC) Calculating16 Solving problems involving several steps	Print Digital	Teacher	218-223 222-227	
			Print	Student	142-145	
		NUMICON 6 (NPC) Calculating 6 Exploring calculations: multistep non-routine problems and order of operations Download for GEMA	Print Digital	Teacher	132 - 140 135-142	
			Print	Student	42-25	
	Adding and subtracting any whole numbers	NUMICON 6 (NPC) Calculating 4 Column methods for adding and subtracting	Print Digital	Teacher	115-123 117- 125	
			Print	Student	30-33	
	Multiplying any whole number by a two-digit number (e.g. 542×12)	NUMICON 5 (NPC) Calculating 12 Written methods of multiplying	Print Digital	Teacher	195-199 199-203	
			Print	Student	114-117	
	Dividing up to five-digit whole numbers by a one-digit divisor, with a remainder (e.g. 1283÷5= 256, remainder 3)	NUMICON 5 (NPC) Calculating 13 Written methods of dividing	Print Digital	Teacher	200 - 204 204-208	
			Print	Student	122-125	
	Connecting finding unit fractions of whole numbers to division (with remainders) (e.g. 1/6 of 31 is equivalent to 31÷6=5r1=5 1/6)	NUMICON 5 (NPC) Calculating 14 Calculating fractions of amounts	Print Digital	Teacher	205 - 210 209-214	
			Print	Student	126 - 129	

	Representing remainders from division as whole numbers, fractions, or rounded decimals, as appropriate to the context	NUMICON 6 (NPC) Calculating 10 Introducing long methods of written division	Print Digital	Teacher	165-175 167-177	
			Print	Student	Print 70-73	
Number: rational number	Reading, writing, and representing tenths, hundredths, and thousandths as fractions and decimals	NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals	Print Digital	Teacher	150-156 152-158	
			Print	Student	54-57	
	Comparing and ordering numbers with up to three decimal places	NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million and decimals Activity 4	Print Digital	Teacher	75 - 76 77 - 78	
			Print	Student	2-5	
	Memorising decimal and percentage equivalents of common fractions ($\frac{1}{2}, \frac{1}{4}, \frac{3}{4}, \frac{1}{5}, \frac{2}{5}, \frac{3}{5}, \frac{4}{5}$) including fractions with denominators that are 10, 100, or 1000	NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals Whole class activity	Print Digital	Teacher	150-156 152-158	
		Bean Bag Maths 3 Download from Supporting Resources	Print download		Print	
	Converting decimal tenths and hundredths to fractions and percentages (e.g. $0.31 = \frac{31}{100} = 31\%$)	NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals	Print Digital	Teacher	150-156 152-158	
			Print	Student	54-57	
	Multiplying and dividing numbers by 10, 100, or 1,000 to make decimals and whole numbers (e.g. $1.3 \times 10 = 13$) and to identify tenths, hundredths, and thousandths places	NUMICON 5 (NPC) Calculating 7 Multiplying and dividing by 10, 100, 1000	Print Digital	Teacher	166-172 168-174	
			Print	Student	66 - 69	
	Finding equivalent fractions	NUMICON 6 (NPC) Numbers and the Number system 2 Fractions	Print Digital	Teacher	78-85 80-87	
			Print	Student	22-25	
	Comparing and ordering fractions where at least one denominator is a common multiple of all the others	NUMICON 6 (NPC) Numbers and the Number system 2 Fractions	Print Digital	Teacher	78-85 80-87	
			Print	Student	22-25	
	Converting between mixed numbers and improper fractions	NUMICON 6 (NPC) Calculating 11 Adding and subtracting with fractions Activity 2, 3	Print Digital	Teacher	176-182 178-184	
			Print	Student	78-81	
		NUMICON 6 (NPC)	Print	Teacher	124-132	

	Finding common percentages (1%, 10%, 20%, 25%, 50%, 75%) of whole numbers	Calculating 5 Percentages	Digital		126-134	
			Print	Student	34-37	
		Birds in the Garden 3 Download	Download from Supporting Resources		1	
	Finding a whole set or amount when given a non-unit fraction, using multiplication and division facts (e.g. 3/4 of the set is 90, what is the whole set?)	NUMICON 5 (NPC) Calculating 14 Calculations fractions of amounts	Print	Teacher	205-210 207-212	
			Print	Student	126-129	
	Finding the whole (100%) when given a percentage (e.g. 75% is 24)					New content coming
	Adding and subtracting fractions and mixed numbers when one denominator is a multiple of the other	NUMICON 6 (NPC) Calculating 11 Adding and subtracting with Fractions	Print Digital	Teacher	176-182 178-184	
			Print	Student	78-81	
		NUMICON 6 (NPC) Preparing for formal testing 4	Print Digital	Teacher	205-208 178-184	
	Adding and subtracting decimals to three decimal places	NUMICON 6 (NPC) Calculating 4 Column methods for adding and subtracting	Print Digital	Teacher	115-123 117- 125	
			Print	Student	30-33	
		NUMICON 6 (NPC) Preparing for formal testing 4	Print Digital	Teacher	205-208 178-184	
	Finding a non-unit fraction of a whole number, using multiplication and division facts and where the answer is a whole number (e.g. 2/3 of 240)	NUMICON 5 (NPC) Calculating 14 Calculations fractions of amounts	Print	Teacher	205-210 207-212	
			Print	Student	126-129	
	Reasoning proportionally with fractions, decimals, and percentages to compare two quantities and determine missing values	NUMICON 6 (NPC) Calculating 7 Ratio and Proportion Activity 1 and 5	Print Digital	Teacher	141-149 143-151	Reasoning proportionally with fractions
			Print	Student	46-49	
Number: financial maths	Investigating questions involving purchases (e.g. ensuring there's enough money)	NUMICON 5 (GMS) Measurement 7 Solving problems Activity 4	Print Digital	Teacher	113-114 117-118	NZ currency in digital eBooks
			Print	Student	146-149	
		NUMICON 6 (NPC) Investigating 6 An enterprise project	Print Digital	Teacher	236-238 238-242	NZ currency in digital eBooks
	Calculating 10%, 25%, and 50% of whole dollar amounts (e.g. 50% of $280)	NUMICON 6 (NPC) Calculating 5	Print Digital	Teacher	124-132 126-134	NZ currency in digital eBooks

		Percentages	Print	Student	34-37	
Algebra: equations and relationships	Checking the truth of and completing open number sentences that involve all four operations and that include the use of inequalities, respecting the order of operations (e.g. $8 \times 7 \leq 8 \times 5 + 4^2$, true or false?)	NUMICON 5 (NPC) Pattern & Algebra 5 Using equivalence to solve problems	Print Digital	Teacher	69-74 70-76	
			Print	Student	154-157	
	Developing a rule for a growing pattern in words and making conjectures about further elements in the pattern	NUMICON 6 (NPC) Pattern & Algebra 2 Exploring number sequences and relationships Activity 5	Print Digital	Teacher	48-49 48-49	Growing pattern with numbers
			Print	Student	58	
	Locating coordinate points on a coordinate plane, including points found on the x- or y-axis	NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants	Print Print Download Digital	Teacher	43-51 7 50	
			Print	Student	98-91	
	Generating a table of values from a rule for a growing pattern and plotting these points on a coordinate plane	NUMICON 6 (NPC) Pattern & Algebra 2 Exploring number sequences and relationships Activities 1, 2	Print Digital	Teacher	43-45 43-45	
			Print	Student	58	
Measurement: measuring	Accurately measuring length with a ruler, mass (weight) with scales, capacity with measuring jugs, temperature with a thermometer, and duration with a timer, using appropriate metric or time-based units or a combination of units (e.g. 2 hours and 30 minutes)	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Print Digital	Teacher	63, 69-75 64, 70 - 76	
			Print	Student	98-100	
		NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Print Digital	Teacher	85-94 86-95	
			Print	Student	118-121	
		NUMICON 5 (NPC) Numbers and the Number system 5 Working with Negative Numbers	Print Digital	Teacher	108-110 110-112	
			Print	Student	43-44	
		NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures	Print Digital	Teacher	108-116 113- 121	
			Print	Student	146-149	
		NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Print Digital	Teacher	69-73 69-73	
			Print	Student	122-125	
		NUMICON 5 (NPC)	Print	Teacher	136-137	

		Calculating 2 Using bridging strategies in calculating time	Digital		138-139	
			Print	Student	23	
	Estimating (using benchmarks) length, mass (weight), capacity, temperature, and duration, using appropriate metric or time-based units or a combination of units	NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Print Digital	Teacher	85-94 86-95	
			Print	Student	118-121	
		NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures	Print Digital	Teacher	108-116 113- 121	
			Print	Student	146-149	
		NUMICON 6 (NPC) Calculating 3 Estimating rounding and equivalence	Print Digital	Teacher	106-114 108-116	
			Print	Student	26-29	
	Converting metric units of length (m and cm), mass (g and kg), and capacity (L and mL), including combining mixed units to produce units with up to 2 decimal places (e.g. 10 kg and 500 g = 10.5 k	NUMICON 5 (NPC) Calculating 10 Proportion and ratio Converting metres and kilometres	Print Digital	Teacher	188 190	
			Print	Student	93	
	Identifying and describing angles at a point, angles on a straight line, and vertically opposite angles, using angle notation	NUMICON 5 (GMS) Geometry 1 Focus activities 1, 2, 3	Print Digital	Teacher	25-33 26-34	
			Print	Student	14-17	
		NUMICON 6 (GMS) Geometry 1 Unknown and opposite angles Activity 5	Print Digital	Teacher	32	
			Print	Student	41	
	Classifying, measuring, and constructing angles up to 360°, using a protractor	NUMICON 5 (GMS) Geometry 1 Focus activities 1, 2, 3	Print Digital	Teacher	25-33 26-34	
			Print	Student	14-17	
	Reasoning about and finding unknown angles in situations involving angles at a point, angles on a straight line, and vertically opposite angles	NUMICON 6 (GMS) Geometry 1 Unknown and opposite angles Activity 5	Print Digital	Teacher	32	
			Print	Student	41	
	Converting between units of time (h, min, s)	NUMICON 4 (GMS) Measurement 1 Times and durations	Print Digital	Teacher	60-68 63-71	
			Print	Student	110-113	
		NUMICON 5 (GMS) Measurement 7	Print Digital	Teacher	113-114 117-118	

		Solving problems Activity 2	Print	Student	146-149	
	Measuring duration in both 12- and 24-hour time systems	NUMICON 4 (GMS) Measurement 1 Times and durations	Print Digital	Teacher	60-68 63-71	
			Print	Student	110-113	
		NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million and decimals Activity 5	Print download - Supporting resources Digital	Teacher	4,5 79-78	Milli- seconds
			Print	Student	Print	
	Finding elapsed time in minutes across an hour (e.g. the difference between 2:53 pm and 3:28 pm)	NUMICON 4 (GMS) Measurement 1 Times and durations	Print Digital	Teacher	60-68 63-71	
			Print	Student	110-113	
		NUMICON 6 (NPC) Preparing for formal testing 5 Activity 5 Managing time	Print Digital	Teacher	214 216	
	Using and interpreting timetables to calculate the duration of events (e.g. bus and train schedules)	NUMICON 5 (GMS) Measurement 7 Solving problems Activity 2	Print Digital	Teacher	113-114 117-118	
			Print	Student	146-149	
	Calculating, estimating, and comparing the volumes of cubes and rectangular prisms using standard units, including cubic centimetres (cm3) and cubic metres (m3)	NUMICON 5 (GMS) Measurement 4 Area of 3D shapes	Print Digital	Teacher	85-94 86-95	
			Print	Student	118-121	
		NUMICON 6 (GMS) Measurement 2 Area of shapes	Print Download Print	Teacher	9 72	Conversion of square units
			Print	Student	Print	
		NUMICON 6 (GMS) Measurement 4 Volume and scaling	Print Digital	Teacher	79-89 80-90	Rectangles
			Print	Student	74-77	
	Visualising, estimating, and calculating (using multiplication) the areas of rectangles and right-angled triangles (in cm2 and m2) and the volumes of rectangular prisms (in cm3)	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Print Digital	Teacher	77-84 78-85	Rectangles
			Print	Student	110-113	
		NUMICON 6 (GMS) Measurement 4	Print Digital	Teacher	79-89 80-90	Rectangles

		Volume and scaling	Print	Student	74-77	
		NUMICON 6 (GMS) Measurement 2 Areas of 2D shapes	Print Digital	Teacher	66-67 67-68	Right-angled triangle in cm
			Print	Student	51	
Geometry: shapes	Identifying, classifying, and explaining similarities and differences between 2D shapes (including different types of triangles and quadrilaterals) and between prisms and pyramids	NUMICON 2 (GMS) Geometry 1 Making and classifying polygons	Print Digital	Teacher	27-32 27-32	
		NUMICON 2 (GMS) Geometry 4 Recognizing and naming prisms and cylinders	Print Digital	Teacher	44-49 44-49	
		NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Print Digital	Teacher	41-48 41-48	
			Print	Student	62-65	
		NUMICON 6 (GMS) Geometry 1 2D angles and shapes	Print Digital	Teacher	25 – 34 25 – 34	
			Print	Student	38-41	
	Identifying and describing the interior angles of triangles and quadrilaterals	NUMICON 6 (GMS) Geometry 1 2D shapes and angles	Print Digital	Teacher	25-34 25-34	
			Print	Student	38-41	
	Identifying shapes with rotational symmetry and determining their order of rotational symmetry	NUMICON 4 (GMS) Geometry 2 Understanding reflective symmetry Activity 2b	Print Download Digital	Teacher	13 39-40	eBook and printable pack
		NUMICON 5 (GMS) Geometry 2 Transformations Activity 1	Print Digital	Teacher	36-37 36-37	Extend to ordering of rotational symmetry
			Print	Student	38-41	
	Visualising, creating, and describing 2D geometric patterns and tessellations using rotation, reflection, and translation, and identifying the properties of the shapes that do not change	NUMICON 5 (GMS) Geometry 2 Transformations Activity 1, 2 Reflections Activity 3, 4 Translation of coordinates	Print Digital	Teacher	34-43 34-42	
			Print	Student	38-41	
		NUMICON 6 (GMS)	Print	Teacher	43-51	

		Geometry 3 Activity 3 Translation Activity 4 Reflection	Digital			
			Print	Student	99, 100	
	Predicting the results of two-step transformations (reflections, translations, rotations) on 2D shapes	NUMICON 5 (GMS) Geometry 2 Transformations Activity 1, 2 Reflections Activity 3, 4 Translation of coordinates	Print Digital	Teacher	34-43 34-42	
			Print	Student	38-41	
Geometry: pathways	Interpreting and creating grid references and simple scales on maps, using directional language including the four main compass points, turn (in degrees), and distance (in m, km) to locate and describe positions and pathways	NUMICON 4 (GMS) Geometry 4 Reading and plotting positions using coordinates	Print Digital	Teacher	51-58 48- 55	
			Print	Student	118-121	
		NUMICON 5 (GMS) Geometry 1 Measuring angles	Print Digital	Teacher	27-33 26-32	
			Print	Student	14-17	
Statistics: Developing knowledge from data	Collecting time-series data (e.g. how the mass of a kilogram of carrots varies over 5 days)	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Print Digital	Teacher	63, 69-75 64, 70 - 76	
			Print	Student	98-100	
		NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Print Digital	Teacher	53-63 53-63	
			Print	Student	14-17	
	Calculating the mean for numerical data	NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Print Digital	Teacher	53-63 53-63	
			Print	Student	14-17	
	Calculating the range for numerical data	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	110-116	eBook and printable pack
Statistics: Visualisation of data	Creating time-series graphs	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Print Digital	Teacher	63, 69-75 64, 70 - 76	
			Print	Student	98-100	
	Choosing and creating an appropriate data visualisation for a given set of data					New activity coming
Statistics:	Identifying whether a time-series graph shows a trend	NUMICON 5 (GMS) Measurement 2	Print Digital	Teacher	63, 69-75 64, 70 - 76	

Interpretation of data		Interpreting charts and data Activity 3	Print	Student	98-100	
	Calculating an average and a range for continuous numerical data	NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 - 130	Average, not range - coming eBook and printable pack
	Interpreting data visualisations, including those from contemporary media	NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 - 130	Media not included - coming eBook and printable pack
Probability Experimental Probability:	Listing the sample space of an event (e.g. the sample space for rolling a die is 1, 2, 3, 4, 5, 6)	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
	Calculating the probabilities of individual outcomes	NUMICON 5 (GMS) Statistics and Probability 2 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 - 130	eBook and printable pack
	Calculating probabilities using a spinner, where each event is a fraction or combination of fractions on the spinner	NUMICON 5 (GMS) Statistics and Probability 2 Statistical Investigations & Data visualisations	Print Download Digital	Teacher	13-20 122 - 130	A variety of Numicon manipulatives are used eBook and printable pack
	Answering questions about the probability of combinations of outcomes, including checking that the sum of all the probabilities is 1	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack

Year 7

Strand and Element	Oct 2025	Resource Title *(NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)*	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/ Section Reference	Notes
Number: number structures (and operations)	Reading, writing comparing, and ordering whole numbers using powers of 10 (e.g. $10,000 = 10^4$, $1000 < 10^4$)	NUMICON 5 (NPC) Numbers and the Number system 1 Working with numbers to a million Activity 1, 6, 7	Print Digital	Teacher	82-87 84-89	Concept Exponents not included
			Print	Student	2 - 5	
		NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million and decimals	Print Digital	Teacher	72- 77 74-80	
			Print	Student	2-4	
	Finding the highest common factor (HCF) of two numbers under 100, and finding the least common multiple (LCM) of two numbers under 10	NUMICON 5 (NPC) Pattern & Algebra 3 Properties of number	Print Digital	Teacher	55-61 55-61	
			Print	Student	74-77	
		NUMICON 6 (NPC) Pattern & Algebra 1 Multiples factors and primes	Print Digital	Teacher	39-42 39-42	
			Print	Student	18-21	
	Using exponents and identifying square roots for square numbers up to at least 144	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising	Print Digital	Teacher	65-68 65-68	Exponents not included
			Print	Student	106-109	
	Using rounding and estimation to predict results and to check the reasonableness of calculations (e.g. 0.73 + 0.8 + 0.999 must be less than 3 since each are close to but less than 1)	NUMICON 5 (NPC) Numbers and the Number system 4 Estimating and rounding	Print Digital	Teacher	101-107 101-107	Introduces symbol of approximately equal $\approx$
			Print	Student	26-29	
	Rounding whole numbers to any specified power of 10, and rounding decimals to the nearest whole number, tenth, or hundredth	NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million Activity 4	Print Digital	Teacher	75 77	Exponents not included
			Print	Student	4	
		NUMICON 5 (NPC) Numbers and the Number system 4 Estimating and rounding	Print Digital	Teacher	101-107 101-107	
			Print	Student	26-29	

	Using divisibility rules to identify numbers that are divisible by 2, 3, 4, 5, 6, 8, 9, and 10	NUMICON 6 (NPC) Pattern & Algebra 1 Multiples factors and primes	Print Digital	Teacher	34-38 34-38	
			Print	Student	18-21	
		NUMICON 6 (NPC) Pattern & Algebra 4 Activity 5, 5b (Download)	Print Print download Digital	Teacher	67-68 2 67-68	
			Print	Student	102-105	
		NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalizing Activity 1	Print Digital	Teacher	62, 63, 68 62, 63, 68	
			Print	Student	106	
	Multiplying whole numbers	NUMICON 6 (NPC) Calculating 9 Written methods of multiplying	Print Digital	Teacher	157-164 159-166	
			Print	Student	66-69	
		NUMICON 5 (NPC) Calculating 12 Written methods of multiplying	Print Digital	Teacher	195-199 199-203	
			Print	Student	114-117	
	Dividing whole numbers by one- or two-digit divisors (e.g. 327 ÷ 5 = 65.4 or 65 2/5)	NUMICON 6 (NPC) Calculating 10 Written methods of multiplying	Print Digital	Teacher	165-175 166-176	
			Print	Student	66-69	
		NUMICON 5 (NPC) Calculating 13 Written methods of dividing	Print Digital	Teacher	200-204 204-208	
			Print	Student	122-125	
	Evaluating expressions using the order of operations	NUMICON 6 (NPC) Calculating 6 Exploring calculations: multistep non-routine problems and order of operations	Print Digital	Teacher	132 -140 135-142	Digital updated to GEMA Student Book updated to GEMA
			Print	Student	42-45	
	Locating integers on a number line	NUMICON 4 (NPC) Numbers and the Number System 4 Introducing negative numbers Activity 1, 2	Print Digital	Teacher	107-112 107-112	
			Print	Student	58	
	Ordering whole negative and positive numbers using a number line	NUMICON 4 (NPC) Numbers and the Number System 4 Introducing negative numbers Activity 3	Print Digital	Teacher	107-112 107-112	
			Print	Student	58 - 61	

		NUMICON 5 (NPC) Numbers and the Number System 5 Working with negative numbers	Print Digital	Teacher	108-113 110-115	
			Print	Student	42-45	
	Representing addition and subtraction of integers using a number line	NUMICON 4 (NPC) Numbers and the Number system 4 Introducing negative numbers Activity 6	Print Digital	Teacher	107-112	
			Print	Student	58 - 61	
		NUMICON 5 (NPC) Numbers and the Number system 5 Working with negative numbers	Print Digital	Teacher	108-113 110-115	
			Print	Student	42-45	
	Identifying, reading, writing, and representing fractions, decimals, and percentages	NUMICON 6 (NPC) Calculating 5 Percentages	Print Digital	Teacher	124-132 124-132	
			Print	Student	34-37	
		NUMICON 5 (NPC) Numbers and the Number System 7 Solving problems with fractions, decimals and percentages	Print Digital	Teacher	119-125 121-127	
			Print	Student	102-105	
	Comparing, ordering, and converting between fractions, decimals, and percentages	NUMICON 5 (NPC) Calculating 11 Percentages Activities 4c, 4c	Print Download Digital	Teacher	5, 6 195-196	eBook and printable pack
		NUMICON 5 (NPC) Calculating 11 Percentages Activity 6	Print Digital	Teacher	193-194 195-196	
			Print	Student	97	
		NUMICON 5 (NPC) Numbers and the Number System 7 Solving problems with fractions, decimals and percentages	Print Digital	Teacher	119-125 121-127	
			Print	Student	102-105	
		NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals	Print Digital	Teacher	150-156 150-156	
			Print	Student	54-57	
	Multiplying and dividing numbers by powers of 10	NUMICON 6 (NPC) Calculating 2 Multiplying and dividing Activity 4	Print Digital	Teacher	103 103	Exponents - coming
			Print	Student	13	

Finding equivalent fractions and representing fractions in their simplest form	NUMICON 5 (NPC) Pattern & Algebra 1 Exploring sequences and number patterns Activity 6, 7	Print Digital	Teacher	47-48 49-50	
		Print	Student	34-37	
	NUMICON 5 (NPC) Numbers and the Number system 6 Comparing and ordering fractions	Print Digital	Teacher	114-118 116-120	
		Print	Student	50-53	
Multiplying whole numbers by fractions and representing the answer in its simplest form	NUMICON 5 (NPC) Calculating 15 Calculating with fractions	Print Digital	Teacher	210-217 212-219	
		Print	Student	141	
	NUMICON 6 (NPC) Calculating 12 Multiplying and dividing fractions	Print Digital	Teacher	183-187 183-187	
		Print	Student	82-85	
Multiplying decimals by whole numbers (e.g. 0.7×5 and 0.7×50, which both relate to knowing 7×5=35)	NUMICON 5 (NPC) Calculating 4 Developing fluency with multiplying and dividing Activity 8	Print Digital	Teacher	151-152 153-154	
		Print	Student	49	
Dividing fractions by whole numbers and representing the answer in its simplest form	NUMICON 6 (NPC) Calculating 12 Multiplying and dividing fractions Activity 4	Print Digital	Teacher	186 186	
		Print	Student	85	
Dividing a whole number by a unit fraction	NUMICON 5 (NPC) Calculating 12 Multiplying and dividing fractions Activities 3 and 4	Print Digital	Teacher	183-187 183-187	
		Print	Student	82-85	
	Numicon 6 (NPC) Calculating 12 Multiplying and dividing fractions Activity 4	Print Digital	Teacher	186-187 188-189	Dividing a proper fraction by a whole number
		Print	Student	85	
Representing numbers in expanded form using powers of 10 (e.g. $34{,}506 = 3 \times 10^4 + 4 \times 10^3 + 5 \times 10^2 + 6$)					New content coming
Using radicals ($\sqrt{}$) to represent square roots	NUMICON 6 (NPC) Investigating 1 Making Squares	Print Digital	Teacher	220-222 223-225	
		Print	Explorer Progress Book 6C	10-11	

	Identifying prime numbers to 100	NUMICON 5 (NPC) Pattern & Algebra 3 Properties of number Activity 7	Print Digital	Teacher	55-65 58-59	
			Print	Student	77	
		NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter Activity 2	Print Digital	Teacher	80 82	
			Print	Student	111	
	Identifying the additive inverse of any number	NUMICON 5 (NPC) Pattern & Algebra 2 Using inverse relationships to solve problems	Print Digital	Teacher	49-54	
			Print	Student	58-61	
	Using negative numbers to solve problems in a range of contexts, including the measurement of temperature and finance	NUMICON 5 (NPC) Numbers and the Number System 5 Working with negative numbers	Print Digital	Teacher	108-113 108-113	
			Print	Student	42-45	
	Adding and subtracting fractions, including improper fractions and mixed numbers, and representing the answer in its simplest form	NUMICON 6 (NPC) Calculating 11 Adding and subtracting with fractions	Print Digital	Teacher	176-182 178-184	
			Print	Student	78-81	
	Adding and subtracting decimals	NUMICON 5 (NPC) Calculating 5 Written methods of adding Activities 4 and 5	Print Digital	Teacher	156-159 158-161	
			Print	Student	60-61	
		NUMICON 5 (NPC) Calculating 6 Written methods of subtracting Activities 3 and 4	Print Digital	Teacher	162-165 164-167	
			Print	Student	64-65	
		NUMICON 6 (NPC) Calculating 4 Column methods for adding and subtracting	Print Digital	Teacher	115-123 117-125	
			Print	Student	30-33	
	Finding a fraction of a whole number (e.g. 5/3 of 186)	NUMICON 5 (NPC) Calculating 14 Finding fractions of amounts	Print Digital	Teacher	205-210	
			Print	Student	126-129	
		NUMICON 6 (NPC) Calculating 12 Multiplying and dividing fractions Activity 4	Print Digital	Teacher	186-187 188-189	
			Print	Student	85	

	Finding a whole amount when given a fraction (e.g. 5/4 of the set is 85, what is the whole set?)	NUMICON 4 (NPC) Calculating 11 Using multiplying facts to solve dividing problems Activity 5b	Printable download Digital	Teacher	7-8 213-215	eBook and printable pack
			Print	Student	93	
		NUMICON 5 (NPC) Calculating 14 Calculating fractions of amounts	Print Digital	Teacher	205-210 209-214	
			Print	Student	126-129	
	Finding common percentages of whole numbers	NUMICON 5 (NPC) Numbers and the Number system 7 Solving problems with fractions, decimals and percentages	Print Digital	Teacher	119-125 119-125	
			Print	Student	102-105	
	Finding the whole (100%) when given a percentage (e.g. 40% is 28)	NUMICON 5 (NPC) Calculating 11 Percentages Activity 5	Print Digital	Teacher	193-194 197-198	New content coming
			Print	Student	94-95	
	Using proportional reasoning to explore multiplicative relationships between quantities (e.g. "If there are 3 red for every 7 blue balls, how many balls are there altogether when there are 18 red balls?")	NUMICON 5 (NPC) Calculating 10 Proportion and ratio	Print Digital	Teacher	184-189 186-191	
			Print	Student	90-93	
		NUMICON 6 (NPC) Calculating 7 Ratio and proportion	Print Digital	Teacher	141-147	
			Print	Student	46-49	
Number: financial maths	Calculating the total cost and change for a transaction involving any amount of money	NUMICON 4 (NPC) Using adding and subtracting facts and understanding inverse relationships Activity 4	Print Digital	Teacher	145-146	
			Print	Student	3	
		NUMICON 4 (NPC) Calculating 8 Developing fluency with the column method of adding Activity 7	Print Digital	Teacher	193	
			Print	Student	66-69	
		NUMICON 4 (NPC) Calculating 9 Developing fluency with the column method of subtracting Activity 5	Print Digital	Teacher	198	
			Print	Student	72	
		NUMICON 4 (GMS)	Print	Teacher	69-76	

		Measurement 2 Calculating with money amounts	Digital		72-79	
			Print	Student	130-133	
	Applying percentage discounts to whole dollar amounts (e.g. in a 20%-off sale)	NUMICON 5 (NPC) Calculating 11 Percentages	Print Digital	Teacher	190-194 192-198	eBook and printable pack
			Print	Student	96	
		NUMICON 6 (NPC) Calculating 5 Percentages Activity 1	Print Digital	Teacher	125 125	
			Print	Student	34	
Algebra: equations and relationships	Forming and solving one- and two-step linear equations with integer solutions (e.g. $t + 7 = 12,\ 5s + 3 = 18$)	NUMICON 6 (NPC) Pattern & Algebra 3 Using algebra to solve problems	Print Digital	Teacher	52-60 52-60	
			Print	Student	86	
	Using substitution to find the value of an expression or formula (e.g. calculating w+12 given w=4)	NUMICON 6 (NPC) Pattern & Algebra 4 Using algebra to solve problems	Print Digital	Teacher	61-70 61-70	
			Print	Student	102-105	
	Identifying the constant increase or decrease in a linear pattern, using variables and algebraic notation to represent the rule in an equation, and using the equation to make conjectures	NUMICON 6 (NPC) Pattern & Algebra 2 Exploring number sequences and relationships Activity 5	Print Digital	Teacher	43-51 43-51	
			Print	Student	58	
	Checking the truth of and completing number sentences involving all four operations and including the use of inequalities (e.g. $0.8 \times 12 \le 8 \times 0.5 + 8$, true or false?)	NUMICON 5 (NPC) Pattern & Algebra 5 Using equivalence to solve problems	Print Digital	Teacher	69-74 70-76	
			Print	Student	154-157	
	Rearranging known formulae using one or two steps					New activity coming
	Simplifying expressions involving any of the four operations by collecting like terms (e.g. 3a+a+a=5a,3b-2b=b)	NUMICON 6 (NPC) Pattern & Algebra 3 Using algebra to solve problems Activity 2	Print Digital	Teacher	52-60 52-60	
			Print	Student	86	
		NUMICON 6 (NPC) Pattern & Algebra 4 Using symbols and letters for variables and unknowns Activity 7	Print Download Digital	Teacher	3 71	

	Identifying and plotting points in the four quadrants of the coordinate plane, using ordered pairs and values from a table	NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants Activities 1 and 2	Print Digital	Teacher	43-45 43-45	
			Print	Student	98	
	Using tables, graphs in the coordinate plane, and diagrams to recognise the relationship between the ordinal position and its corresponding element in a linear pattern, develop a rule for the pattern in words, and make conjectures about further elements in the pattern	NUMICON 6 (NPC) Pattern & Algebra 2 Exploring number sequences and relationships	Print Digital	Teacher	43-51 43-51	
			Print	Student	58	
	Using formulae to find unknown measurements related to area (e.g. the base of a triangle given its area and height, the area of a figure composed of a triangle and rectangle, given side lengths) Using formulae to find unknown measurements related to volume (e.g. the dimensions of a cube given its volume, the volume of a rectangular prism given side lengths)	NUMICON 6 (GMS) Measurement 2 Areas of 2D shapes	Print Digital	Teacher	64-72 65-74	
			Print	Student	50-53	
		NUMICON 6 (GMS) Measurement 4 Volume and scaling	Print Digital	Teacher	81-91	
			Print	Student	74-77	
	Selecting and using an appropriate base measure (e.g. metre, gram, litre) within the metric system, along with a prefix (e.g. kilo-, centi-) to show the size of units	NUMICON 4 (GMS) Measurement 3 Understanding and using units of length and distance	Print Digital	Teacher	77-83 80-86	
			Print	Student	134-137	
	Using formulae to find unknown measurements related to perimeter (e.g. the length of the unknown sides of a square given its perimeter, the length of an unknown side in a composite shape given its perimeter)	NUMICON 4 (GMS) Measurement 6 Understanding perimeter and area	Print Digital	Teacher	98-104 101-107	
			Print	Student	150-153	
	Read, interpret, and use timetables and charts that present information about duration	NUMICON 4 (GMS) Measurement 1 Finding times and durations, and using the 24- hour clock	Print Digital	Teacher	60-68 63-71	
			Print	Student	110-113	
Geometry: shapes (not separate)	Classifying triangles by both their angle and side properties	NUMICON 4 (GMS) Geometry 1 Classifying triangles and quadrilaterals	Print Digital	Teacher	28-36	
			Print	Student	26-29	
Geometry: spatial reasoning	Transforming 2D shapes in the coordinate plane by a single translation, reflection across a given mirror line, or a rotation about a given point by a multiple of 90 degrees	NUMICON 4 (GMS) Geometry 2 Understanding reflective symmetry	Print Digital	Teacher	37-44 37-44	Symmetry
			Print	Student	54-57	
		NUMICON 5 (GMS) Geometry 2 Transformations	Print Digital	Teacher	34-42 34-42	Symmetry Reflections Translations
			Print	Student	38-41	

		NUMICON 6 (GMS) Geometry 3 Transformations In the four quadrants	Print Digital	Teacher	43 – 51 43 - 51	Transformations Reflections
			Print	Student	98-101	
	Identifying the 2D shapes that compose 3D shapes	NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity Activity 2	Print Digital	Teacher	87-88, 94 88-89, 97	
			Print	Student	119	
		NUMICON 6 (NPC) GMS Investigations 1 Shape shifting	Print Digital	Teacher	91-95 94-98	
	Drawing nets for prisms and pyramids	NUMICON 6 (GMS) Measurement 3 3D shapes – nets and surface area	Print Digital	Teacher	73-78 75-80	
			Print	Student	64, 65	
	Reasoning about unknown angles in situations involving perpendicular lines, parallel lines, and transversals	NUMICON 6 (GMS) Geometry 1 2D Shapes and Angles Activity 5	Print Digital	Teacher	32-33 32-33	
			Print	Student	41	
	Solving for an unknown angle in a diagram by setting up and solving a multi-step equation based on supplementary, complementary, vertical, and adjacent angle relationships	NUMICON 6 (GMS) Geometry 1 2D shapes and angles Activity 5?	Print Digital	Teacher	32-34	
			Print	Student	41	
Geometry: pathways	Interpreting and communicating the location of positions and pathways using coordinates, angle measures, and the eight main and halfway compass points (e.g. NE, which is 45° E from N)	NUMICON 3 Geometry 4 Using Grids and references	Print & Digital	Teacher	49-55	
			Print	Student	154-157	
		NUMICON 4 (GMS) Geometry 4 Reading and plotting positions using coordinates	Print & Digital	Teacher	51-58	
			Print	Student	118-121	
		NUMICON 5 (GMS) Geometry 1 Measuring angles Activity 2	Print download Digital	Teacher	7-8 29	eBook and printable pack
		NUMICON 5 (GMS) Geometry 1 Measuring angles Focus Activities 4, 5	Print Digital	Teacher	30-31 26-34	
			Print	Student	16	

		NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants Activity 6	Print Digital	Teacher	8 50	
			Print	Student	98-101	
Statistics: Developing knowledge from data	Planning and collecting data in order to respond to a statistical question (e.g. Are our feet the same length?)	NUMICON 5 (GMS) Measurement 2 Interpreting charts and graphs	Print Digital	Teacher	63-76 64-77	
			Print	Student	98-101	
		NUMICON 6 (NPC) Calculating 7 Ratio and proportion Activity 4	Print Digital	Teacher	146-147 148-149	
			Print	Student	46-49	
	Calculating the mean, median, and mode for numerical data	NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Print Digital	Teacher	53-63 53-64	
			Print	Student	14-17	
	Calculating the range for numerical data	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
Statistics: Visualisation of data	For a given set of data, choosing and constructing an appropriate data visualisation according to the data type (e.g. a dot plot, bar graph, time-series graph)	NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs Activity 5	Print Digital	Teacher	60-63 60-64	
			Print	Student	14-17	
	Noticing and explaining outliers in a given set of data	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
Statistics: Interpretation of data	Responding to statistical questions by calculating an appropriate measure of central tendency and range for a variety of data tables and data visualisations	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
	Interpreting data visualisations, including those from contemporary media	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
	Identifying when a data visualisation cannot be interpreted accurately due to missing information	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack

	Identifying outliers by eye and taking them into account when using range as a measure of spread	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
Probability Experimental Probability	Carrying out a chance experiment and calculating the experimental probability of each outcome	NUMICON 5 (GMS) Statistics and Probability 2 Investigating probability	Print Download Digital	Teacher	32-42 131-137	eBook and printable pack
		NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
	Comparing experimental probability (using at least 30 trials) to theoretical probability, and explaining why they differ and how increasing the number of trials reduces this difference	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations Activity 5	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
	Carrying out chance experiments of at least 100 trials and comparing the experimental probability of each individual outcome to its theoretical probability, in order to demonstrate the Law of Large Numbers	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations Activity 7	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
Probability Theoretical Probability	Calculating probabilities for events as decimals, fractions, and percentages	NUMICON 5 (GMS) Statistics and Probability 2 Investigating probability	Print Download Digital	Teacher	32-42 131-137	eBook and printable pack
		NUMICON 5 (GMS) Statistics and Probability 2 Investigating probability	Print Download Digital	Teacher	32-42 131-137	eBook and printable pack
	Comparing the likelihood of different events	NUMICON 5 (GMS) Statistics and Probability 2 Investigating probability	Print Download Digital	Teacher	32-42 131-137	eBook and printable pack
	Calculating probabilities for complementary events	NUMICON 5 (GMS) Statistics and Probability 2 Investigating probability	Print Download Digital	Teacher	32-42 131-137	eBook and printable pack

Year 8

Strand and Element	Oct 2025	Resource Title *(NPC = Number, Pattern and Calculating Teaching Handbook; GMS = Geometry, Measurement and Statistics Teaching Handbook)*	Resource Type (print/ digital/ coursebook/ workbook etc)	Teacher/ Student	Page/ Section Reference	Notes
Number: number structures	Reading, writing comparing, and ordering whole numbers and decimals using positive and negative powers of 10	NUMICON 5 (NPC) Numbers and the Number System 1 Working with numbers up to a million	Print Digital	Teacher	82-87 84-89	
			Print	Student	2-5	
		NUMICON 6 (NPC) Numbers and the Number System 1 Working with numbers beyond a million and decimals	Print Digital	Teacher	72-77 74-80	
			Print	Student	2-5	
		NUMICON 6 (NPC) Calculating 1 Adding and subtracting negative numbers in context, and large numbers	Print Digital	Teacher	88-95 90-97	
			Print	Student	6-9	
	Representing composite numbers as products of their prime factors, using exponents to summarise repeated factors (e.g. $36 = 2 \times 2 \times 3 \times 3 \times 3 = 2^2 \times 3^3$)	NUMICON 6 (NPC) Pattern & Algebra 1 Multiples, factors and primes	Print Digital	Teacher	34-42 34-42	
			Print	Student	18-21	
	Representing whole numbers and decimals in expanded form using powers of 10 (e.g. $3.61 = 3 \times 10^1 + 6 \times 10^{-1} + 1 \times 10^{-2}$)					New content coming
	Representing negative powers of 10 as a fraction and a decimal, and vice-versa (e.g. $0.01 = \frac{1}{100} = 10^{-2}$)					New content coming
	Using exponents and identifying cube roots for cube numbers up to at least 125	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalizing Activity 7	Print Digital	Teacher	67 68	
			Print	Student	109	
	Using radicals ($\sqrt{}$ and $\sqrt[3]{}$) to represent square and cube roots	NUMICON 6 (NPC) Investigating 1 Making squares	Print Digital	Teacher	220-222 222-224	
			Print	Explorer Progress Book 6C	10-11	
	Evaluating square and cube roots for perfect squares and cubes and using a calculator to approximate them for other numbers	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalizing	Print Digital	Teacher	62-68 62-69	eBook and printable pack
			Print	Student	108-109	

	Locating negative and positive numbers on a number line	NUMICON 4 (NPC) Numbers and the Number System 4 Introducing negative numbers	Print Digital	Teacher	107- 112 107- 112	
			Print	Student	58-61	
	Comparing and ordering negative and positive numbers using a number line (e.g. $-3.4 < -3$)	NUMICON 4 (NPC) Numbers and the Number System 4 Introducing negative numbers	Print Digital	Teacher	107- 112 107- 112	
			Print	Student	58-61	
		NUMICON 5 (NPC) Numbers and the Number System 5 Working with negative numbers	Print Digital	Teacher	108-113 110- 115	
			Print	Student	42-45	
	Evaluating expressions involving negative numbers, addition, and subtraction (e.g. $3 + -7$)	NUMICON 6 (NPC) Numbers and the Number System 1 Adding and subtracting with Negative numbers in context	Print Digital	Teacher	72-77 90-97	
			Print	Student	2-5	
	Identifying percentage equivalence in calculations (e.g. 45% of 20 is equal to 20% of 45)	NUMICON 6 (NPC) Calculating 5 Percentages	Print Digital	Teacher	124-132 126-133	
			Print	Student	34-37	
Number: operations	Using rounding, estimation, and benchmarks to predict results and to check the reasonableness of calculations (e.g. 14.7×5 must be between $14 \times 5 = 70$ and $15 \times 5 = 75$)	NUMICON 6 (NPC) Calculating 1-13 Throughout	Print Digital	Teacher	87-194 89-196	
			Print	Student	Various	
	Rounding whole numbers to any specified power of 10, and rounding decimals to the nearest whole number, tenth, hundredth, or thousandth	NUMICON 6 (NPC) Numbers and the Number System 1 Working with numbers beyond a million and decimals	Print Digital	Teacher	72-77 74-80	
			Print	Student	2-5	
	Multiplying and dividing whole numbers (e.g. $327 \div 15 = 21.8$ or $21\frac{4}{5}$)	NUMICON 6 (NPC) Calculating 10 Introducing long written methods of dividing Activity 5, 6	Print Digital	Teacher	170-175 172- 177	
			Print	Student	73	
	Evaluating expressions with integers, using the order of operations	NUMICON 6 (NPC) Calculating 1 Adding and subtracting with Negative Numbers in context	Print Digital	Teacher	88-95 90-97	
			Print	Student	6-9	
		NUMICON 6 (NPC) Calculating 13	Print Digital	Teacher	188-194 190-196	

		Solving non-routine problems using all four operations	Print	Student	94-97	
Number: rational number	Identifying, reading, writing, and representing fractions, decimals, and percentages	NUMICON 6 (NPC) Calculating 5 Percentages Activity 1	Print Digital	Teacher	125-126 127-128	
			Print	Student	34	
		NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals	Print Digital	Teacher	150-156 152-158	
			Print	Student	54-57	
	Comparing, ordering, and converting between fractions, decimals, and percentages	NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals	Print Digital	Teacher	150-156 152-158	
			Print	Student	54-57	
		NUMICON 5 (NPC) Numbers and the Number System 7 Solving problems with fractions, decimals and percentages	Print Digital	Teacher	119-125 121-127	
			Print	Student	102-105	
	Multiplying and dividing numbers by powers of 10	NUMICON 6 (NPC) Calculating 2 Multiplying and dividing	Print Digital	Teacher	96-105 98-107	Multiplying and dividing by 10, 100, 1000 New content coming
			Print	Student	10-13	
	Finding a fraction of a whole number, including when the result is a mixed number or improper fraction (e.g. for 2/5 of 42, 2/5×42=84/5=16 2/5)	NUMICON 5 (NPC) Calculating 14 Calculating fractions of amounts Activity 5	Print Digital	Teacher	208-210 212-214	
			Print	Student	126-129	
		NUMICON 5 (NPC) Calculating 15 Calculating with fractions Activities 5 and 6	Print Digital	Teacher	215-217 219-221	
			Print	Student	141	
	Multiplying whole numbers by fractions, including by improper fractions, by mixed numbers, and by first converting to an improper fraction	NUMICON 5 (NPC) Calculating 15 Calculating with fractions Activities 5 and 6	Print Digital	Teacher	215-217 219-221	
			Print	Student	141	
	Multiplying fractions and representing the answer in its simplest form	NUMICON 6 (NPC) Calculating 12 Multiplying and dividing fractions	Print Digital	Teacher	183-187 185-189	
			Print	Student	82-85	
	Multiplying positive decimals (e.g. 2.3×45)	NUMICON 6 (NPC) Calculating 9 Written column methods of multiplying	Print Digital	Teacher	157-164 159-166	
			Print	Student	67-68	

	Finding a whole amount when given a fraction, including when the whole set is a mixed number or improper fraction (e.g. if 8 is 3/5 of a set, 8×5/3=13 1/3)	NUMICON 5 (NPC) Calculating 14 Calculating fractions of amounts	Print Digital	Teacher	205-210 209-214	
			Print	Student	126-129	
		NUMICON 5 (NPC) Calculating 15 Calculating with fractions	Print Digital	Teacher	211-217 215-221	
			Print	Student	141	
	Finding percentages of whole numbers	NUMICON 5 (NPC) Calculating 11 Percentages	Print Digital	Teacher	190-194 192-198	eBook and printable pack
			Print	Student	94-97	
		NUMICON 6 (NPC) Calculating 5 Percentages	Print Digital	Teacher	124-132 126-134	
			Print	Student	34-37	
	Finding the whole (100%) when given a percentage (e.g. 3% is 27)	NUMICON 5 (NPC) Calculating 11 Percentages	Print Digital	Teacher	190-194 192-198	
			Print	Student	94-97	
		NUMICON 6 (NPC) Calculating 5 Percentages	Print Digital	Teacher	124-132 126-134	
			Print	Student	34-37	
	Dividing a quantity into two parts, given the part:part or part:whole ratio	NUMICON 6 (NPC) Calculating 7 Ratio & proportion Activity 2	Print Digital	Teacher	143-145, 149 145-147, 151	
			Print	Student	46-47	
	Expressing the division of quantity into two parts as a ratio	NUMICON 6 (NPC) Calculating 7 Ratio & proportion	Print Digital	Teacher	141-149 143-151	
			Print	Student	46-49	
Number: financial maths	Creating and comparing weekly, monthly, and yearly finance plans (e.g. for saving plans, phone plans, budgets, and 'buy now, pay later' services)	NUMICON 6 (NPC) An Enterprise project	Print Digital	Teacher	236-238 238-240	
	Applying percentage discounts (e.g. a 35% discount on $180 will give a new price of $180 − (0.35 × $180) = $117)	NUMICON 5 (NPC) Calculating 11 Percentages	Print Digital	Teacher	190-194 192-198	
			Print	Student	94-97	
		NUMICON 6 (NPC) Calculating 5 Percentages	Print Digital	Teacher	124-132 126-134	
			Print	Student	34-37	

Algebra: equations and relationships	Forming and solving linear equations with rational solutions (e.g. $t + 7 = 6.5$, $5s + 9 = -18$)	NUMICON 6 (NPC) Pattern & Algebra 2 Exploring number sequences and relationships	Print Digital	Teacher	43-51 43-51	
			Print	Student	58-61	
		NUMICON 6 (NPC) Pattern & Algebra 4 Using symbols and letters for variables and unknowns Activity 2	Print Digital	Teacher	63-64, 71 63-64, 72	
			Print	Student	102-105	
	Forming and solving linear inequalities and representing the solution on a number line (e.g. $t - 3 \geq -5$)					New content coming
	Using substitution to find the value of an expression or formula (e.g. calculating w+12 given w=4)	NUMICON 6 (NPC) Pattern & Algebra 3 Using algebra to solve problems	Print Digital	Teacher	52-60 52-60	
			Print	Student	86-89	
	Rearranging formulae using multiple steps and substitution to find an unknown value (e.g. making a the subject of A=1/2 (a+b))	NUMICON 6 (NPC) Pattern & Algebra 4 Using symbols and letters for variables and unknowns	Print Digital	Teacher	61-70 61-70	
			Print	Student	102-105	
	Simplifying algebraic expressions involving sums, products, differences, and single brackets, and collecting like terms (e.g. 2(x+3)+1=2x+6+1=2x+7)	NUMICON 6 (NPC) Pattern & Algebra 4 Using symbols and letters for variables and unknowns Activity 7	Print download Digital	Teacher	3 71	eBook and printable pack
	Factorising simple algebraic expressions (e.g. 5x-35=5(x-7))					New content coming
	Using tables, graphs in the coordinate plane, and diagrams to recognise the relationship between the ordinal position and its corresponding element in a linear pattern, develop a rule for the pattern in words, and make conjectures about further elements in the pattern					New content coming
	Investigating the patterns of triangular numbers, square numbers, and cube numbers, extending the patterns, creating tables of values, and plotting the values on the coordinate plane	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalizing	Print Digital	Teacher	62-68 62-69	New triangular numbers activity coming
			Print	Student	108, 109	
		NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity Activity 3	Print Digital	Teacher	88-89, 94 88-89, 97	
			Print	Student		
	Identifying and plotting points in the four quadrants of the coordinate plane, using ordered pairs and values from a table	NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants	Print Digital	Teacher	43-51 43-51	
			Print	Student	98-101	

	Identifying the constant increase or decrease in a linear pattern, using variables and algebraic notation to represent the rule in an equation, and using the equation to make conjectures	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalizing	Print Digital	Teacher	62-68 62-69	eBook and printable pack
			Print	Student	107	
Measurement: measuring	Estimating and measuring length, area, volume, capacity, mass (weight), temperature, time, and angle, using appropriate units	NUMICON 6 (GMS) Measurement 4 Volume and scaling	Print Digital	Teacher	25-33 26-34	
			Print	Student	14-17	
	Calculating the area of a parallelogram and a trapezium	NUMICON 6 (GMS) Measurement 2 Areas of 2D shapes	Print Digital	Teacher	64-72 65-74	eBook and printable pack
			Print	Student	50-53	
	Calculating the area of a shape, given some lengths and its perimeter, and vice versa	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Print Digital	Teacher	77-84 78-85	
			Print	Student	110-113	
		NUMICON 5 (GMS) Measurement 5 Working with area and perimeter	Print Digital	Teacher	95-100 98-103	
			Print	Student	130-133	
		NUMICON 6 (GMS) Measurement 2 Areas of 2D shapes	Print Digital	Teacher	64-72 65-74	eBook and printable pack
			Print	Student	50-53	
	Calculating lengths of quadrilaterals, given their area and other sufficient information	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Print Digital	Teacher	77-84 78-85	
			Print	Student	110-113	
	Converting between metric units of area (mm2, cm2, m2, and km2) and volume (mm3, cm3 and m3)	NUMICON 5 (NPC) Calculating 10 Proportion and ratio Activity 5	Print Digital	Teacher	188-189 190-191	
			Print	Student	91, 93	
		NUMICON 5 (GMS) Measurement 1 Metric and non-metric units Activity 1	Print Digital	Teacher	54-55, 62 55-56, 63	
			Print	Student	70	
	Converting between different volume units (cm3, m3, mL, L)	NUMICON 6 (GMS) Measurement 4 Volume and scaling	Print Digital	Teacher	79-89 81-92	
			Print	Student	74-77	
	Read, interpret, and use timetables, charts and results that present information about duration.	NUMICON 5 (GMS) Measurement 2	Print Digital	Teacher	69-72, 75 70-73, 76	

		Interpreting charts and graphs Activities 4 and 5	Print	Student	99-100	
	Convert times to a given unit (e.g. hours and minutes to minutes)	NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures Activity 2	Print Digital	Teacher	110, 116 115-116, 121	
			Print	Student	146	
	Calculating the volume of composite figures made up of cubes, rectangular prisms, and/or triangular prisms	NUMICON 6 (GMS) Measurement 4 Volume and scaling	Print Digital	Teacher	79-89 81-92	New content coming
			Print	Student	74-77	
	Calculating the volume of triangular prisms	NUMICON 6 (GMS) Measurement 4 Volume and scaling Activity 1	Print Digital	Teacher	80-81, 88, 89 82-83, 91, 92	
			Print	Student	74	
Geometry: shapes	Identifying and describing the parts of a circle: the radius, diameter, and circumference	NUMICON 6 (GMS) Geometry 2 Circles	Print Digital	Teacher	35-42 35-42	
				Student	90-93	
Geometry: spatial reasoning	Transforming 2D shapes on the coordinate plane, including composite shapes, by a combination of translations, reflections, rotations, and scaling by any factor	NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants Activities 1-4	Print Digital	Teacher	43 - 51 43 - 51	New content coming- rotations, and scaling by any factor
				Student	98-101	
	Proving that the interior angle sum of a triangle is 180°, and generalising a rule for the interior angle sum and exterior angles for any polygon	NUMICON 5 (GMS) Geometry 3 Exploring angles Focus Activities 1 - 4	Print Digital	Teacher	43-51 44- 52	New content coming- exterior angles
				Student	86-89	
		NUMICON 6 (GMS) Geometry 1 2D shapes and angles Activity 4	Print Digital	Teacher	31-32, 34 31-32, 34	
				Student	38-40	
	Reasoning about unknown angles in situations involving internal and external angles of polygons	NUMICON 6 (GMS) Geometry 1 2D shapes and angles Activity 5	Print Digital	Teacher	32 32	New content coming - Polygons and exterior angles
			Print	Student	41	
Geometry: pathways	Using map scales, compass points, distance, and turn to interpret and communicate positions and pathways in coordinate systems and grid reference systems	NUMICON 4 (GMS) Geometry 4 Reading and plotting positions using coordinates	Print Digital	Teacher	51-58 52-61	eBook and printable pack
			Print	Student	118-121	

		NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants	Print Digital	Teacher	43-51 43-51	
			Print	Student	98-101	
		NUMICON 5 (GMS) Geometry 1 Measuring angles Focus Activities 4, 5	Print Digital	Teacher	30-31 26 - 34	
			Print	Student	16	
Statistics: Developing knowledge from data	Planning and collecting data in order to respond to a statistical question (e.g. Are our feet the same length?)	NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Print Digital	Teacher	53-63 53-64	
			Print	Student	14-17	
		NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations Activity 7	Print download Digital	Teacher	18-19 114-115	eBook and printable pack
	Calculating the mean, median, and mode for numerical data	NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Print Digital	Teacher	53-63 53-64	
			Print	Student	14-16	
		Numicon 5 (GMS) Statistics and Probability 1 Statistical investigations and data visualizations Activity 5	Print download Digital	Teacher	17, 18, 20 127, 128, 130	eBook and printable pack
	Calculating the range for numerical data	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations Activity 1	Print download Digital	Teacher	15, 20 111, 116	eBook and printable pack
Statistics: Visualisation of data	For a given set of data, choosing and constructing an appropriate data visualisation according to the data type (e.g. a dot plot, bar graph, time-series graph)	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
	Noticing and explaining outliers in a given set of data	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
Statistics:	Responding to statistical questions by calculating an appropriate measure of central tendency and range for a variety of data tables and data visualisations	NUMICON 6 (GMS) Statistics and Probability 1	Print download Digital	Teacher	14-25 110-116	eBook and printable pack

Interpretation of data		Using graphs for statistical investigations				
	Interpreting data visualisations, including those from contemporary media	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
	Identifying when a data visualisation cannot be interpreted accurately due to missing information	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
	Identifying outliers by eye and taking them into account when using range as a measure of spread	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Print download Digital	Teacher	14-25 110-116	eBook and printable pack
Probability Experimental Probability	Carrying out a chance experiment and calculating the experimental probability of each outcome	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
	Comparing experimental probability (using at least 30 trials) to theoretical probability, and explaining why they differ and how increasing the number of trials reduces this difference	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations Activity 5	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
	Carrying out chance experiments of at least 100 trials and comparing the experimental probability of each individual outcome to its theoretical probability, in order to demonstrate the Law of Large Numbers	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
Probability Theoretical Probability	Calculating probabilities for events as decimals, fractions, and percentages	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack
	Comparing the likelihood of different events	NUMICON 5 (GMS) Statistics and Probability 2 Investigating probability	Print Download Digital	Teacher	32-42 131-137	eBook and printable pack
	Calculating probabilities for complementary events	NUMICON 6 (GMS) Statistics and Probability 2 Further probability investigations	Print Download Digital	Teacher	26-35 117-123	eBook and printable pack