

# Ministry-funded Y0-Y8 Maths Resource Curriculum Alignment Guide



The purpose of this guide is to enable schools to use existing Ministry-funded Maths resources with the updated Mathematics and Statistics learning area (October 2025). The guide identifies the Strands, Elements and Practices in the updated Maths and Statistics learning area and shows the location of this learning in existing print and digital resources.

<b>Learning Level</b>	<b>Phase 2 - Years 4-6</b>
<b>Supplier</b>	<b>Numicon</b>

## Year 4

<b>Strand and Element</b>	<b>Practices</b> The skills, strategies, and applications to teach	<b>Resource Title</b> <i>(NPC: Number, Pattern and Calculating Teaching Handbook; GMS: Geometry, Measurement and Statistics Teaching Handbook)</i>	<b>Resource Type</b>	<b>Teacher/ Student</b>	<b>Page/ Section Reference</b>	<b>Notes</b> (Printable packs are downloaded from Numicon online)	
<b>Number: number structures</b>	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	Digital	Teacher	90-95		
			Print	Student	6-9		
		NUMICON 4 (NPC) Numbers and the Number System 2 Ordering and comparing numbers to 1000 and beyond	Digital	Teacher	96-100		
			Print	Student	14-17		
		Rounding whole numbers to the nearest thousand, hundred, or ten	NUMICON 4 (NPC) Numbers and the Number System 3 Estimating and rounding	Digital	Teacher		101-106
				Print	Student		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	Digital	Teacher	121, 125, 126		
			Print	Student	78-81		
	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	Digital	Teacher	44-49		
			Print	Student	10-13		
		NUMICON 4 (NPC) Calculating 5 Developing fluency with multiplying facts to $12 \times 12$	Digital	Teacher	171-177		
			Print	Student	38-41		

<b>Number: number structures</b>	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	Digital	Teacher	90-95		
			Print	Student	6-9		
		NUMICON 4 (NPC) Numbers and the Number System 2 Ordering and comparing numbers to 1000 and beyond	Digital	Teacher	96-100		
			Print	Student	14-17		
<b>Number: operations</b>	Adding and subtracting up to four-digit numbers	NUMICON 4 (NPC) Calculating 1 Using adding and subtracting facts and understanding inverse relationships	Digital	Teacher	144-150		
			Print	Student	2-5		
	Memorising multiplication and corresponding division facts for 2s to 10s	NUMICON 4 (NPC) Calculating 5 Developing fluency with multiplying facts to $12 \times 12$	Digital	Teacher	171-177		
			Print	Student	38-41		
		NUMICON 4 (NPC) Calculating 6 Developing fluency with dividing facts to $12 \times 12$	Digital	Teacher	178-184		
			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	Digital	Teacher	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	Digital	Teacher	203-208		Activity in eBook and printable pack
			Print	Student	86-89		
		NUMICON 4 (NPC) Calculating 12 Developing fluency with the short-written method of multiplying	Digital	Teacher	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	Digital	Teacher	221-225			
		Print	Student	102-105			
<b>Number: rational numbers</b>	Reading, writing, and representing tenths as fractions and decimals	NUMICON 4 (NPC) Numbers and the Number System 6 Introducing decimal fractions	Digital	Teacher	120-128	Activity in 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	Digital	Teacher	120-128	Activity in 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	Digital	Teacher	209-215	Activity in eBook and printable pack	
			Print	Student	90-93		

Number: rational numbers	Multiplying decimal tenths by 10	NUMICON 4 (NPC) Numbers and the Number System 8 Introducing decimal fractions with two places Activity 3	Digital	Teacher	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	Digital	Teacher	120-128	Activity in 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	Digital	Teacher	120-128	Activity in 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	Digital	Teacher	113-119	
			Print	Student	62-65	
	Identifying when two fractions are equivalent, using representations	NUMICON 4 (NPC) Numbers and the Number System 5 Fractions and recognizing part-whole relationships	Digital	Teacher	113-119	
			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 Fractions and recognizing part-whole relationships	Digital	Teacher	113-119	
			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. $\frac{1}{3}$ of 300)	NUMICON 4 (NPC) Calculating 11 Using multiplying facts to solve dividing problems	Digital	Teacher	209-215	Activity in eBook and printable pack
			Print	Student	90-93	
	Finding the whole set or amount when given a unit fraction, using multiplication and division facts (e.g. $\frac{1}{4}$ of a set is 7, what is the whole set?)	NUMICON 4 (NPC) Calculating 11 Using multiplying facts to solve dividing problems	Digital	Teacher	209-215	Activity in eBook and printable pack
			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 Fractions and recognizing part-whole relationships	Digital	Teacher	113-119	
			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 Developing fluency with adding and subtracting calculations and understanding inverse relationships	Digital	Teacher	130-135	
Print			Student	18-21		
NUMICON 5 (NPC) Calculating 2 Strategies for bridging when adding and subtracting mentally		Digital	Teacher	136-141		
		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 Mental strategies for multiplying and dividing by 10 and 100	Digital	Teacher	185-191		
		Print	Student	50-53		

<b>Number: financial maths</b>	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 Calculating with money amounts	Digital	Teacher	73-79	
			Print	Student	130-133	
	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	Digital	Teacher	147-148, 150	
			Print	Student	2-5	
		NUMICON 4 (NPC) Calculating 9 Developing fluency with the column method of subtracting Activity 5	Digital	Teacher	200, 202	
			Print	Student	70-73	
NUMICON 4 (NPC) Calculating 14 Solving problems involving more than one step	Digital	Teacher	226-230			
	Print	Student	106-109			
<b>Algebra: equations and relationships</b>	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	Digital	Teacher	50-56	
			Print	Student	46-49	
		NUMICON 4 (NPC) Pattern and Algebra 3 Exploring 'equals' in balancing number sentences	Digital	Teacher	57-62	
			Print	Student	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	Digital	Teacher	207-208	Activity in eBook and printable pack
			Print	Student	86-89	
NUMICON 4 (NPC) Pattern and Algebra 3 Exploring 'equals' in balancing number sentences	Digital	Teacher	57-62			
	Print	Student	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, ...; 3, 6, 12, 24, ...)	NUMICON 4 (NPC) Pattern and Algebra 5 Looking for growing patterns in problem solving	Digital	Teacher	70-75		
		Print	Student	114-117		
<b>Measurement: measuring</b>	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	Digital	Teacher	63-71	
			Print	Student	110-113	
	NUMICON 4 (GMS) Measurement 3 Understanding and using units of length and distance	Digital	Teacher	80-86		
		Print	Student	134-137		

<b>Measurement: measuring</b>	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	Digital	Teacher	80-86		
			Print	Student	134-137		
		NUMICON 4 (GMS) Measurement 4 Understanding and using units of mass	Digital	Teacher	87-93		
			Print	Student	138-141		
		NUMICON 4 (GMS) Measurement 5 Understanding and using units of capacity	Digital	Teacher	94-100		
			Print	Student	142-145		
	Measuring temperature in degrees Celsius	NUMICON 4 (GMS) Measurement 1 Finding times and durations, and using the 24- hour clock Activity 8	Digital	Teacher	63-71		
			Print	Student	110-113		
	Measuring the perimeter of polygons using metric units (mm, cm, and m)	NUMICON 4 (GMS) Measurement 6 Understanding perimeter and area	Digital	Teacher	101-107		
			Print	Student	150-153		
	Measuring the areas of irregular shapes covered with squares and half squares	NUMICON 4 (GMS) Measurement 6 Understanding perimeter and area	Digital	Teacher	101-107		
			Print	Student	150-153		
Calculating the areas of rectangular figures (including squares) using multiplication of side lengths	NUMICON 4 (GMS) Measurement 6 Understanding perimeter and area Activity 5	Digital	Teacher	105, 107			
		Print	Student	150-153			
Measuring the volumes of rectangular prisms (cuboids) by filling them with identical 3D blocks	NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Digital	Teacher	86-97	Activity in eBook and printable pack		
		Print	Student	118-121			
Estimating the size of angles by comparing them to 90, 180, and 360 degrees	NUMICON 4 (GMS) Geometry 3 Investigating angles in shapes	Digital	Teacher	46-51			
		Print	Student	74-77			
	NUMICON 3 (GMS) Geometry 2 Identifying and comparing angles by size	Digital	Teacher	34-40			
		Print	Student	54-57			
Telling the time on analogue and digital clocks to the nearest minute	NUMICON 4 (GMS) Measurement 1 Finding times and durations using the 24- hour clock	Digital	Teacher	63-71			
		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 Finding times and durations using the 24- hour clock	Digital	Teacher	63-71			
		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 Finding times and durations using the 24- hour clock	Digital	Teacher	63-71			
		Print	Student	110-113			

<b>Geometry: shapes</b>	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 Investigating the parts and properties of polygons and polyhedra	Digital	Teacher	27-33		
			Print	Student	38-41		
		NUMICON 3 (GMS) Geometry 2 Identifying and comparing angles by size Activity 4	Digital	Teacher	38-40		
			Print	Student	54-57		
		NUMICON 4 (GMS) Geometry 1 Classifying triangles and quadrilaterals	Digital	Teacher	28-36		
			Print	Student	26-29		
Identifying the number of lines of symmetry in 2D shapes	NUMICON 4 (GMS) Geometry 2 Understanding reflective symmetry	Digital	Teacher	37-45	Activity in eBook and printable pack		
		Print	Student	54-57			
<b>Geometry: spatial reasoning</b>	Visualising 3D shapes and connecting them with 2D diagrams, verbal descriptions, and the same shapes drawn from different perspectives	NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Digital	Teacher	85-94		
			Print	Student	118-121		
	Performing one-step transformations (reflections, translations, rotations) on 2D shapes	NUMICON 4 (GMS) Geometry 2 Understanding reflective symmetry	Digital	Teacher	37-45		Activity in eBook and printable pack
			Print	Student	54-57		
<b>Geometry: pathways</b>	Use alphanumeric and general grid references to identify regions and plot positions on a grid map	NUMICON 4 (GMS) Geometry 4 Reading and plotting positions using coordinates	Digital	Teacher	52-61	Activity in eBook and printable pack	
			Print	Student	118-121		
<b>Statistics: Developing knowledge from data</b>	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	Teacher	109-114	S&P1 is eBook and printable pack	
			Digital				
		NUMICON 4 (NPC) Measurement 3 Understanding and using units of length and distance Activity 5	Digital	Teacher	84		
Print	Student		136				
<b>Statistics: Visualisation of data</b>	Creating dot-plot or bar-graph data visualisations	NUMICON 4 (GMS) Statistics and probability 1 Exploring line graphs and investigating probability	Print Download	Teacher	109-114	S&P1 is eBook and printable pack	
			Digital				
		NUMICON 4 (NPC) Measurement 3 Understanding and using units of length and distance Activity 5	Digital	Teacher	84		
			Print	Student	136		
<b>Statistics: Interpretation of data</b>	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	Digital	Teacher	103, 107	S&P1 is eBook and printable pack	

<b>Statistics: Interpretation of data</b>	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	Digital	Teacher	103, 107	S&P1 is eBook and printable pack
	Interpreting data visualisations	NUMICON 4 (GMS) Statistics and probability 1 Exploring line graphs and investigating probability	Digital	Teacher	109-114	S&P1 is eBook and printable pack
	Distinguishing between when to use a particular value or the frequency for a given value when answering questions about dot 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?)	NUMICON 2 (GMS) Statistics and probability 1 Collecting, using and understanding categorical data Activity 1	Digital	Teacher	103, 107	S&P1 is eBook and printable pack

## Year 5

Strand and Element	Practices The skills, strategies, and applications to teach	Resource Title (NPC: Number, Pattern and Calculating Teaching Handbook; GMS: Geometry, Measurement and Statistics Teaching Handbook)	Resource Type	Teacher/ Student	Page/ Section Reference	Notes (Printable packs are downloaded from Numicon online)
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	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	171-177	
			Print	Student	38-41	
		NUMICON 4 (NPC) Calculating 6 Developing fluency with dividing facts to 12 x 12 Extend to counting	Digital	Teacher	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	Digital	Teacher	44-47	
			Print	Teacher	88	
NUMICON 5 (NPC) Numbers and the Number system 1 Working with numbers up to a million Activity 6		Digital	Student	4		
Counting backwards through 0 to include negative whole numbers	NUMICON 5 (NPC) Numbers and the Number system 5 Working with Negative numbers	Digital	Teacher	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	Digital	Teacher	149-155	
			Print	Student	62-65	

<b>Number: operations</b>	Memorising multiplication and corresponding division facts for 2s to 12s	NUMICON 5 (NPC) Calculating 4 Developing fluency with multiplying and dividing	Digital	Teacher	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	Digital	Teacher	149-155	
			Print	Student	46,47	
		NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising	Digital	Teacher	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	Digital	Teacher	168-174	
			Print	Student	66-69	
		NUMICON 5 (NPC) Calculating 12 Written methods of multiplying	Digital	Teacher	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	Digital	Teacher	202-206		
		Print	Student	122-125		
<b>Number: rational number</b>	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	Digital	Teacher	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	Digital	Teacher	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 Understanding decimals Activity 7, 8	Digital	Teacher	100	
			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	Digital	Teacher	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	Digital	Teacher	116- 120	
			Print	Student	50-53	
	Recognising families of equivalent fractions	NUMICON 5 (NPC) Numbers and the Number system 6 Activities 2-5	Digital	Teacher	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	Digital	Teacher	90-95	
			Print	Student	6 - 9	

<b>Number: rational number</b>	Memorising and using decimal equivalents of $\frac{1}{2}$ , $\frac{1}{4}$ , and $\frac{3}{4}$ and fractions with denominators of 10 or 100	NUMICON 5 (NPC) Calculating 11 Percentages Activity 6	Digital	Teacher	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	Digital	Teacher	121-127	
			Print	Student	102-105	
		NUMICON 5 (NPC) Calculating 11 Percentages	Digital	Teacher	193 - 196	
			Print	Student	94-97	
NUMICON 5 (NPC) Download Calculating 11 Activity 4b, 4c	Digital	Teacher	195 - 196	Activity in eBook and printable pack		
Finding the whole (100%) when given 25% or 50%	NUMICON 4 (NPC) Download Calculating 11 Activity 5b	Digital	Teacher	213 - 214	Activity in eBook and printable pack	
Converting common percentages (10%, 25%, 50%) to fractions and decimals		NUMICON 5 (NPC) Numbers and the Number system 7 Solving problems with percentages	Digital	Teacher	121-127	
			Print	Student	102-105	
		NUMICON 5 (NPC) Calculating 11 Percentages Activity 6	Digital	Teacher	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	Digital	Teacher	207-212		
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	Digital	Teacher	153-154	
			Print	Student	49	
		NUMICON 5 (NPC) Calculating 7 Multiplying and dividing by 10, 100, 1000	Digital	Teacher	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	Digital	Teacher	213	eBook and printable pack	

<b>Number: rational number</b>	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	Digital	Teacher	92-97		
			Print	Student	6-9		
		NUMICON 5 (NPC) Calculating 1 Developing fluency with Adding and subtracting Activity 4	Digital	Teacher	130		
			Print	Student	20		
		NUMICON 5 (NPC) Calculating 2 Strategies when adding and subtracting	Digital	Teacher	136		
			Print	Student	24		
		NUMICON 5 (NPC) Calculating 15 Calculating with fractions Activities 1-4	Digital	Teacher	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 Developing fluency with Adding and subtracting Activity 5	Digital	Teacher	130	
				Print	Student	21	
			NUMICON 5 (NPC) Calculating 2 Strategies when adding and subtracting Activities 5 and 6	Digital	Teacher	137-138	
				Print	Student	25	
NUMICON 5 (NPC) Calculating 3 Further strategies for adding and subtracting Activities 4, 5, 6	Digital		Teacher	142 - 144			
	Print		Student	32, 33			
NUMICON 5 (NPC) Calculating 6 Written Methods of adding Activity 5	Digital		Teacher	162 - 163			
	Print		Student	61			
<b>Number: financial maths</b>	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	Digital	Teacher	130-131	
				Print	Student	19	
			NUMICON 5 (NPC) Calculating 5 Written Methods of adding Activity 3	Digital	Teacher	156 - 158	
				Print	Student	60	

<b>Number: financial maths</b>	Calculating the total cost of items costing dollars and cents and the change from the nearest ten dollars	NUMICON 5 (NPC) Calculating 6 Written methods of subtraction Activity 3	Digital	Teacher	162-163	
			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	Digital	Teacher	90	
			Print	Student	59, 60	
		NUMICON 4 (GMS) Measurement 2 Calculating with money amounts	Digital	Teacher	72-79	
			Print	Student	130-133	
	Rounding money amounts to the nearest dollar	NUMICON 4 (GMS) Measurement 2 Calculating with money amounts Activity 2	Digital	Teacher	73-74	
			Print	Student	130	
NUMICON 5 (NPC) Numbers and the Number System 4 Estimating and Rounding Activity 6		Digital	Teacher	103-104		
		Print	Student	28		
<b>Algebra: equations and relationships</b>	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	Digital	Teacher	52-53	See also Numicon 5, Pattern & Algebra 6
			Print	Student	86	
	Completing number sentences that involve addition and subtraction by using equality (=) and inequality (<, >) symbols (e.g. $2,456 + 203,938$ $3,456 + 231,930$ ; $2,456 \times 2$ $1,228 \times 4$ )	NUMICON 5 (NPC) Pattern & Algebra 1 Exploring sequences and number patterns	Digital	Teacher pages	70	
			Print	Student	150-151	
		NUMICON 5 (NPC) Pattern & Algebra 5 Using equivalence to solve problems	Digital	Teacher pages	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	Digital	Teacher	70-71	
			Print	Student	34-37	
		NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising	Digital	Teacher	64-70	
			Print	Student	106-109	

<b>Measurement: measuring</b>	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	Digital	Teacher	64, 70 - 76	
			Print	Student	98-100	
		NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Digital	Teacher	86-95	
			Print	Student	118-121	
		NUMICON 5 (NPC) Numbers and the Number system 5 Working with Negative Numbers	Digital	Teacher	110-112	
			Print	Student	43-44	
		NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures	Digital	Teacher	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	Digital	Teacher	69-73	
			Print	Student	122-125	
	Classifying and constructing angles up to 180°, using a protractor	NUMICON 5 (GMS) Geometry 1 Measuring angles	Digital	Teacher	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	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	Digital	Teacher	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	Digital	Teacher	78 - 85	Full squares	
		Print	Student	110-113		
	NUMICON 5 (GMS) Measurement 5 Working with area and perimeter	Digital	Teacher	98 - 103		
		Print	Student	130-133		
	NUMICON 6 (GMS) Measurement 2 Area of 2D shapes	Digital	Teacher	65-73	Partial squares	
		Print	Student	50-53		

<b>Measurement: measuring</b>	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	Digital	Teacher	98 - 103	
			Print	Student	130-133	
		NUMICON 6 (NPC) Investigating 1 Making Squares	Digital	Teacher	222-224	
	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	Digital	Teacher	96-102	
			Print	Student	10-11	
		NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Digital	Teacher	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	Digital	Teacher	86-95	
			Print	Student	118-121	
		NUMICON 5 (GMS) Measurement 7 Problem solving involving volume and capacity Activity 5	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	63-71	
Print			Student	110-113		
NUMICON 5 (NPC) Calculating 2 Using bridging strategies		Digital	Teacher	138-139		
		Print	Student	23		
NUMICON 5 (GMS) Measurement 7 Problem solving involving volume and capacity Activity 2		Digital	Teacher	115-117		
		Print	Student	149		
<b>Geometry: shapes</b>	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	Digital	Teacher	73- 78	
			Print	Student	62-65	

<b>Geometry: shapes</b>	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 Activities 1 and 2	Digital	Teacher	27-33	
			Print	Student	38-41	
<b>Geometry: spatial reasoning</b>	Connecting 3D shapes with nets	NUMICON 6 (GMS) Measurement 3 3D shapes – nets and surface area	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	Digital	Teacher	37-45	Reflections Translations
			Print	Student	38-41	
		NUMICON 6 (GMS) Geometry 1 2D shapes and angles	Digital	Teacher	25-34	
			Print	Student	38	
	NUMICON 6 (GMS) Geometry 3 Transformations in the four quadrants	Digital	Teacher	43-51	Transformations	
		Print	Student	98		
<b>Geometry: pathways</b>	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	Digital	Teacher	52-59	
			Print	Student	154	
		NUMICON 4 (GMS) Geometry 4 Reading and plotting positions using coordinates	Digital	Teacher	48- 55	
			Print	Student	118-121	
<b>Statistics: Developing knowledge from data</b>	Collecting continuous numerical data by taking measurements, and then applying specified rounding rules	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Digital	Teacher	64, 70 - 76	
	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	Digital	Teacher	110-116	
<b>Statistics: Visualisation of data</b>	Creating tables for continuous numerical data, using groupings (e.g. 0–0.99, 1–1.99, 2–2.99)					Not in Numicon resource*
	Creating clustered bar graphs for paired categorical data	NUMICON 5 (GMS) Statistical investigations and data visualisations Activity 2	Digital	Teacher	25	S&P1 is eBook and printable pack

\*Supports are in development for 'Practices' that are not currently included in existing Ministry-funded maths resources

<b>Statistics: Interpretation of data</b>	Answering questions about the frequency of particular values or groups of values from a table for continuous numerical data	NUMICON 5 (GMS) Measurement 2 Interpreting charts & graphs	Digital	Teacher	64-77	
			Print	Student	98-101	
		NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Digital	Teacher	122 - 130	S&P1 is eBook and printable pack
		NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical information	Digital	Teacher	110-116	S&P1 is 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	Digital	Teacher	94-100	S&P1 is eBook and printable pack
		NUMICON 4 (GMS) Statistics and Probability 1 Exploring line graphs and investigating probability	Digital	Teacher	108-114	S&P1 is eBook is digital and printable pack printable pack
		NUMICON 5 (GMS) Measurement 2 Interpreting charts & graphs Activity 3	Digital	Teacher	64-77	Multivariate data
		Print	Student	99		
	Interpreting data visualisations	NUMICON 5 (GMS) Measurement 2 Interpreting charts & graphs	Digital	Teacher	64-77	
			Print	Student	98-101	
NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations		Digital	Teacher	122 - 130	S&P1 is eBook and printable pack	
<b>Probability: Experimental probability</b>	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	Digital	Teacher	103-108	S&P1 is 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	Digital	Teacher	96 - 100	S&P1 is 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	Digital	Teacher	122 - 130	S&P1 is eBook and printable pack

## Year 6

Strand and Element	Practices The skills, strategies, and applications to teach	Resource Title (NPC: Number, Pattern and Calculating Teaching Handbook; GMS: Geometry, Measurement and Statistics Teaching Handbook)	Resource Type	Teacher/ Student	Page/ Section Reference	Notes (Printable packs are downloaded from Numicon online)
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	Digital	Teacher	84-89	
			Print	Student	2 - 5	
		NUMICON 6 (NPC) Numbers and the Number system 1 Working with numbers beyond a million	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	110	
			Print	Student	58	
		NUMICON 5 (NPC) Numbers and the Number system 5 Working with negative numbers	Digital	Teacher	109	
			Print	Student	42	
	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	Digital	Teacher	65-68	
			Print	Student	106-109	
		NUMICON 5 (NPC) Measurement 4 Estimating Volume and capacity	Digital	Teacher	86-97	
			Print	Student	118-121	
Memorising the square numbers to 144 and cube numbers to 125	NUMICON 5 (NPC) Pattern & Algebra 4 Looking for patterns and generalising Whole class practice & discussion	Digital	Teacher	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	Digital	Teacher	106		
		Print	Student	28		

<b>Number: number structures</b>	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	Digital	Teacher	74-79	
			Print	Student	4	
		NUMICON 6 (NPC) Calculating 3 Estimating Rounding and equivalence	Digital	Teacher	108-116	
			Print	Student	26-29	
<b>Number: operations</b>	Calculating expressions using the order of operations	NUMICON 5 (NPC) Calculating 16 Solving problems involving several steps	Digital	Teacher	222-227	
			Print	Student	142-145	
		NUMICON 6 (NPC) Calculating 6 Exploring calculations: multistep non-routine problems and order of operations Download for GEMA	Digital	Teacher	135-142	
			Print	Student	42-25	
	Adding and subtracting any whole numbers	NUMICON 6 (NPC) Calculating 4 Column methods for adding and subtracting	Digital	Teacher	117- 125	
			Print	Student	30-33	
	Multiplying any whole number by a two-digit number (e.g. $542 \times 12$ )	NUMICON 5 (NPC) Calculating 12 Written methods of multiplying	Digital	Teacher	199-203	
			Print	Student	114-117	
	Dividing up to five-digit whole numbers by a one-digit divisor, with a remainder (e.g. $1283 \div 5 = 256$ , remainder 3)	NUMICON 5 (NPC) Calculating 13 Written methods of dividing	Digital	Teacher	204-208	
			Print	Student	122-125	
	Connecting finding unit fractions of whole numbers to division (with remainders) (e.g. $\frac{1}{6}$ of 31 is equivalent to $31 \div 6 = 5r1 = 5 \frac{1}{6}$ )	NUMICON 5 (NPC) Calculating 14 Calculating fractions of amounts	Digital	Teacher	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	Digital	Teacher	167-177	
			Print	Student	Print 70-73	
<b>Number: rational number</b>	Reading, writing, and representing tenths, hundredths, and thousandths as fractions and decimals	NUMICON 6 (NPC) Calculating 8 Converting fractions and decimals	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	Digital	Teacher	77 - 78	
			Print	Student	2-5	

<b>Number: rational number</b>	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	Digital	Teacher	152-158	
		Bean Bag Maths 3 Download from Supporting Resources	Digital		Print download from Numicon online.	
	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	Digital	Teacher	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	Digital	Teacher	168-174	
			Print	Student	66 - 69	
	Finding equivalent fractions	NUMICON 6 (NPC) Numbers and the Number system 2 Fractions	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	178-184	
			Print	Student	78-81	
	Finding common percentages (1%, 10%, 20%, 25%, 50%, 75%) of whole numbers	NUMICON 6 (NPC) Calculating 5 Percentages	Digital	Teacher	126-134	
			Print	Student	34-37	
		Birds in the Garden 3 Download	Digital		1	Print download from Numicon online
Finding a whole set or amount when given a non-unit fraction, using multiplication and division facts (e.g. $\frac{3}{4}$ of the set is 90, what is the whole set?)	NUMICON 5 (NPC) Calculating 14 Calculations fractions of amounts	Print	Teacher	207-212		
		Print	Student	126-129		
Finding the whole (100%) when given a percentage (e.g. 75% is 24)					Not in Numicon resource*	
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	Digital	Teacher	178-184		
		Print	Student	78-81		
	NUMICON 6 (NPC) Preparing for formal testing 4	Digital	Teacher	178-184		

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<b>Number: rational number</b>	Adding and subtracting decimals to three decimal places	NUMICON 6 (NPC) Calculating 4 Column methods for adding and subtracting	Print	Teacher	117- 125		
			Digital	Student	30-33		
		NUMICON 6 (NPC) Preparing for formal testing 4	Digital	Teacher	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. $\frac{2}{3}$ of 240)	NUMICON 5 (NPC) Calculating 14 Calculations fractions of amounts	Digital	Teacher	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	Digital	Teacher	143-151		Reasoning proportionally with fractions
Print			Student	46-49			
<b>Number: financial maths</b>	Investigating questions involving purchases (e.g. ensuring there's enough money)	NUMICON 5 (GMS) Measurement 7 Solving problems Activity 4	Digital	Teacher	117-118		
			Print	Student	146-149		
	NUMICON 6 (NPC) Investigating 6 An enterprise project	Digital	Teacher	238-242			
	Calculating 10%, 25%, and 50% of whole dollar amounts (e.g. 50% of \$280)	NUMICON 6 (NPC) Calculating 5 Percentages	Digital	Teacher	126-134		
Print			Student	34-37			
<b>Algebra: equations and relationships</b>	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	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	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	Digital	Teacher	43-45		
			Print	Student	58		

<b>Measurement: measuring</b>	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	Digital	Teacher	64, 70 - 76	
			Print	Student	98-100	
		NUMICON 5 (GMS) Measurement 4 Estimating volume and capacity	Digital	Teacher	86-95	
			Print	Student	118-121	
		NUMICON 5 (NPC) Numbers and the Number system 5 Working with Negative Numbers	Digital	Teacher	110-112	
			Print	Student	43-44	
		NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures	Digital	Teacher	113- 121	
			Print	Student	146-149	
		NUMICON 3 (GMS) Measurement 3 Measuring accurately and calculating with metres, centimetres and millimetres	Digital	Teacher	69-73	
			Print	Student	122-125	
		NUMICON 5 (NPC) Calculating 2 Using bridging strategies in calculating time	Digital	Teacher	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	Digital	Teacher	86-95	
			Print	Student	118-121	
		NUMICON 5 (GMS) Measurement 7 Solving problems involving time, money and measures	Digital	Teacher	113- 121	
			Print	Student	146-149	
		NUMICON 6 (NPC) Calculating 3 Estimating rounding and equivalence	Digital	Teacher	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	Digital	Teacher	190	
			Digital	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	Digital	Teacher	26-34		
		Print	Student	14-17		
	NUMICON 6 (GMS) Geometry 1 Unknown and opposite angles Activity 5	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	Digital	Teacher	26-34		
		Print	Student	14-17		

<b>Measurement: measuring</b>	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	Digital	Teacher	32	
			Print	Student	41	
	Converting between units of time (h, min, s)	NUMICON 4 (GMS) Measurement 1 Times and durations	Digital	Teacher	63-71	
			Print	Student	110-113	
		NUMICON 5 (GMS) Measurement 7 Solving problems Activity 2	Digital	Teacher	117-118	
			Print	Student	146-149	
	Measuring duration in both 12- and 24-hour time systems	NUMICON 4 (GMS) Measurement 1 Times and durations	Digital	Teacher	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	Digital	Teacher	79-78	eBook and printable pack
			Print	Student		
	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	Digital	Teacher	63-71	
			Print	Student	110-113	
		NUMICON 6 (NPC) Preparing for formal testing 5 Activity 5 Managing time	Digital	Teacher	216	
			Print	Student		
	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	Digital	Teacher	117-118	
			Print	Student	146-149	
	Calculating, estimating, and comparing the volumes of cubes and rectangular prisms using standard units, including cubic centimetres (cm <sup>3</sup> ) and cubic metres (m <sup>3</sup> )	NUMICON 5 (GMS) Measurement 4 Area of 3D shapes	Digital	Teacher	86-95	
			Print	Student	118-121	
NUMICON 6 (GMS) Measurement 2 Area of shapes		Digital	Teacher	72	eBook and printable pack Conversion of square units	
		Print	Student			
NUMICON 6 (GMS) Measurement 4 Volume and scaling		Digital	Teacher	80-90	Rectangles	
		Print	Student	74-77		

<b>Measurement: measuring</b>	Visualising, estimating, and calculating (using multiplication) the areas of rectangles and right-angled triangles (in cm <sup>2</sup> and m <sup>2</sup> ) and the volumes of rectangular prisms (in cm <sup>3</sup> )	NUMICON 5 (GMS) Measurement 3 Calculating area and perimeter	Digital	Teacher	78-85	Rectangles
			Print	Student	110-113	
		NUMICON 6 (GMS) Measurement 4 Volume and scaling	Digital	Teacher	80-90	Rectangles
			Print	Student	74-77	
		NUMICON 6 (GMS) Measurement 2 Areas of 2D shapes	Digital	Teacher	67-68	Right-angled triangle in cm
			Print	Student	51	
<b>Geometry: shapes</b>	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	Digital	Teacher	27-32	
			Digital	Teacher	44-49	
		NUMICON 3 (GMS) Geometry 3 Sorting and classifying 2D and 3D shapes	Digital	Teacher	41-48	
			Print	Student	62-65	
	NUMICON 6 (GMS) Geometry 1 2D angles and shapes	Digital	Teacher	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	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	Digital	Teacher	39-40	eBook and printable pack
			Digital	Teacher	36-37	
		NUMICON 5 (GMS) Geometry 2 Transformations Activity 1	Print	Student	38-41	
			Digital	Teacher	34-42	
	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	Student	38-41	
			Digital	Teacher	43-51	
		NUMICON 6 (GMS) Geometry 3 Activity 3 Translation Activity 4 Reflection	Print	Student	99, 100	
Digital			Teacher	34-42		

<b>Geometry: shapes</b>	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	Digital	Teacher	34-43	
			Print	Student	38-41	
<b>Geometry: pathways</b>	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	Digital	Teacher	48- 55	
			Print	Student	118-121	
		NUMICON 5 (GMS) Geometry 1 Measuring angles	Digital	Teacher	26-32	
			Print	Student	14-17	
<b>Statistics: Developing knowledge from data</b>	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	Digital	Teacher	64, 70 - 76	
			Print	Student	98-100	
		NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Digital	Teacher	53-63	
			Print	Student	14-17	
	Calculating the mean for numerical data	NUMICON 6 (GMS) Measurement 1 Statistics, charts and graphs	Digital	Teacher	53-63	
			Print	Student	14-17	
Calculating the range for numerical data	NUMICON 6 (GMS) Statistics and Probability 1 Using graphs for statistical investigations	Digital	Teacher	110-116	S&P1 is eBook and printable pack	
<b>Statistics: Visualisation of data</b>	Creating time-series graphs	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data	Digital	Teacher	64, 70 - 76	
			Print	Student	98-100	
	Choosing and creating an appropriate data visualisation for a given set of data	NUMICON 5 (GMS) Statistics and Probability 1 Using graphs for statistical investigations Activity 7	Digital	Teacher	128-129	eBook and printable pack
<b>Statistics: Interpretation of data</b>	Identifying whether a time-series graph shows a trend	NUMICON 5 (GMS) Measurement 2 Interpreting charts and data Activity 3	Digital	Teacher	64, 70 - 76	
			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	Digital	Teacher	122 - 130	S&P1 is eBook and printable pack
	Interpreting data visualisations, including those from contemporary media	NUMICON 5 (GMS) Statistics and Probability 1 Statistical Investigations & Data visualisations	Digital	Teacher	122 - 130	S&P1 is eBook and printable pack

<b>Probability Experimental Probability:</b>	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	Digital	Teacher	117-123	S&P1 is eBook and printable pack
	Calculating the probabilities of individual outcomes	NUMICON 5 (GMS) Statistics and Probability 2 Statistical Investigations & Data visualisations	Digital	Teacher	122 - 130	S&P1 is 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	Digital	Teacher	122 - 130	A variety of Numicon manipulatives are used S&P1 is 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	Digital	Teacher	117-123	S&P1 is eBook and printable pack