

PSLE Checkpoint Primary 1 Mathematics Knowledge Point List

V4 MOE-refined 40-week plan | Corrected level boundaries, complete coverage and independently assessable knowledge points

Plan at a Glance

Annual Weeks	40
Atomic Knowledge Points	164
Pure MOE Core Weeks	34
Spiral / Transfer Weeks	5
KP Range per Week	4-5



Curriculum Design Rules

1	MOE foundation	All required P1 content is retained as the non-negotiable core.
2	Concrete-pictorial-abstract progression	New ideas begin with objects and pictures before symbolic fluency and transfer.
3	Spiral retrieval	Important number facts, operations, measurement, geometry and data ideas are revisited across terms.
4	Atomic assessment	Every KP describes one observable outcome that can be assessed independently.
5	Advanced but age-appropriate	Extension is limited to reasoning, representation, strategy choice and unfamiliar application rather than premature upper-primary content.

Workbook Structure

Weekly KP Plan	40-week sequence with 4-5 KPs, spiral retrieval and assessment emphasis.
Atomic KP Register	One row per assessable KP with stable identifiers and evidence requirements.
Spiral Map	Shows when each important family is introduced, developed and consolidated.
MOE Coverage Audit	Cross-checks the complete P1 syllabus scope against the weekly allocation.
Sources & Notes	Records source scope, codes and curriculum interpretation rules.

Primary 1 Mathematics - Complete Weekly Knowledge Point Plan

Each week contains 4-5 assessable KPs. Review weeks retrieve taught content and require reasoning, checking and transfer.

Term	Term Week	Annual Week	KP Count	Domain	Primary Family	Learning Stage	Core Status	Weekly Focus	Assessable Knowledge Points	Spiral Retrieval	Assessment Emphasis	Progression Note
1	1	1	4	Number & Algebra	NA-WN	Introduce	MOE Core	Numbers to 10: counting and quantity	1. Count objects accurately using one-to-one correspondence 2. Recognise numerals 0 to 10 3. Match numerals to quantities 4. Subitise small quantities and explain how they are seen	Preschool counting, comparison, shape and pattern foundations	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 10: counting and quantity through accurate representations, explanation, strategy choice and one unfamiliar application.
1	2	2	4	Number & Algebra	NA-WN	Develop	MOE Core	Numbers to 10: representations and comparison	1. Represent numbers with objects, drawings, ten-frames and number lines 2. Read and write number words to ten 3. Compare two sets using more, fewer and equal 4. Order numbers from least to greatest	Retrieve: Numbers to 10: counting and quantity; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 10: representations and comparison through accurate representations, explanation, strategy choice and one unfamiliar application.
1	3	3	4	Number & Algebra	NA-WN	Develop	MOE Core	Number bonds within 10	1. Decompose numbers within 10 in more than one way 2. Complete part-part-whole number bonds 3. Identify missing parts in number bonds 4. Explain commutative pairs using concrete models	Retrieve: Numbers to 10: representations and comparison; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop number bonds within 10 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	4	4	4	Number & Algebra	NA-AS	Introduce	MOE Core	Addition concepts within 10	1. Interpret addition as putting together and adding on 2. Use + and = correctly 3. Write addition sentences from pictures and stories 4. Find sums within 10 using counting-on and number bonds	Retrieve: Number bonds within 10; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop addition concepts within 10 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	5	5	4	Number & Algebra	NA-AS	Develop	MOE Core	Subtraction concepts within 10	1. Interpret subtraction as taking away and finding a difference 2. Use – and = correctly 3. Write subtraction sentences from pictures and stories 4. Find differences within 10 using concrete and pictorial models	Retrieve: Addition concepts within 10; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop subtraction concepts within 10 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	6	6	4	Number & Algebra	NA-AS	Develop	MOE Core	Addition and subtraction relationships	1. Relate addition and subtraction using inverse facts 2. Add more than two one-digit numbers 3. Build fact families within 10 4. Check subtraction using addition	Retrieve: Subtraction concepts within 10; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop addition and subtraction relationships through accurate representations, explanation, strategy choice and one unfamiliar application.
1	7	7	4	Number & Algebra	NA-WN	Develop	MOE Core	Ordinal numbers and positions	1. Use first to tenth and 1st to 10th 2. Describe position in an ordered line 3. Distinguish ordinal position from quantity 4. Solve simple position-change problems	Retrieve: Addition and subtraction relationships; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop ordinal numbers and positions through accurate representations, explanation, strategy choice and one unfamiliar application.
1	8	8	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	2D shapes: identification, composition and grids	1. Identify and name rectangles squares triangles circles semicircles and quarter circles 2. Form different figures using rectangles squares triangles semicircles and quarter circles 3. Identify the 2D shapes that make up a composite figure 4. Copy a figure accurately on a dot grid or square grid	Retrieve: Ordinal numbers and positions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop 2d and 3d shapes through accurate representations, explanation, strategy choice and one unfamiliar application.
1	9	9	4	Number & Algebra	NA-ALG	Introduce	MOE Core	Patterns and early algebraic thinking	1. Continue repeating patterns 2. Identify the repeating unit 3. Create and describe a pattern 4. Find a missing item in a visual or number pattern	Retrieve: 2D and 3D shapes; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop patterns and early algebraic thinking through accurate representations, explanation, strategy choice and one unfamiliar application.
1	10	10	5	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	Term 1 mastery and reasoning	1. Retrieve numbers bonds and facts within 10 2. Solve one-step addition and subtraction stories 3. Explain a chosen strategy using words or pictures 4. Identify and correct a simple mathematical error 5. Complete a short non-routine pattern task	Retrieve: Patterns and early algebraic thinking; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop term 1 mastery and reasoning through accurate representations, explanation, strategy choice and one unfamiliar application.
2	1	11	4	Number & Algebra	NA-WN	Develop	MOE Core	Numbers to 20	1. Count forward and backward within 20 2. Represent teen numbers as ten and ones 3. Read and write numerals and number words to 20 4. Compare and order numbers within 20	Retrieve: Term 1 mastery and reasoning; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 20 through accurate representations, explanation, strategy choice and one unfamiliar application.

Term	Term Week	Annual Week	KP Count	Domain	Primary Family	Learning Stage	Core Status	Weekly Focus	Assessable Knowledge Points	Spiral Retrieval	Assessment Emphasis	Progression Note
2	2	12	4	Number & Algebra	NA-WN	Develop	MOE Core	Number bonds to 20	1. Decompose teen numbers into ten and ones 2. Build number bonds within 20 3. Use make-ten combinations 4. Find missing parts within 20	Retrieve: Numbers to 20; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop number bonds to 20 through accurate representations, explanation, strategy choice and one unfamiliar application.
2	3	13	4	Number & Algebra	NA-AS	Develop	MOE Core	Addition within 20	1. Add within 20 using make-ten 2. Use counting-on efficiently 3. Add three one-digit numbers 4. Choose an efficient addition strategy	Retrieve: Number bonds to 20; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop addition within 20 through accurate representations, explanation, strategy choice and one unfamiliar application.
2	4	14	4	Number & Algebra	NA-AS	Develop	MOE Core	Subtraction within 20	1. Subtract within 20 by taking from ten 2. Use counting-back and think-addition 3. Find a difference by comparison 4. Choose an efficient subtraction strategy	Retrieve: Addition within 20; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop subtraction within 20 through accurate representations, explanation, strategy choice and one unfamiliar application.
2	5	15	4	Number & Algebra	NA-AS	Develop	MOE Core	Mental calculation within 20	1. Recall core addition facts within 20 2. Recall related subtraction facts 3. Use doubles and near doubles 4. Use compensation for simple mental sums	Retrieve: Subtraction within 20; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop mental calculation within 20 through accurate representations, explanation, strategy choice and one unfamiliar application.
2	6	16	4	Problem Solving & Mathematical Processes	PS-REASON	Develop	MOE Core	One-step word problems	1. Identify the whole and parts in a story 2. Distinguish addition from subtraction situations 3. Represent a problem with a bar model 4. Write a complete number sentence and answer	Retrieve: Mental calculation within 20; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop one-step word problems through accurate representations, explanation, strategy choice and one unfamiliar application.
2	7	17	4	Problem Solving & Mathematical Processes	PS-REASON	Develop	MOE Core	Comparison problems	1. Interpret more than and fewer than 2. Find how many more or fewer 3. Use a comparison bar model 4. Check whether the answer is reasonable	Retrieve: One-step word problems; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop comparison problems through accurate representations, explanation, strategy choice and one unfamiliar application.
2	8	18	4	Statistics	ST-DATA	Introduce	MOE Core	Picture graphs	1. Read a one-to-one picture graph 2. Identify greatest least and equal categories 3. Find totals and differences from a graph 4. Complete a graph from given data	Retrieve: Comparison problems; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop picture graphs through accurate representations, explanation, strategy choice and one unfamiliar application.
2	9	19	4	Statistics	ST-DATA	Develop	MOE Core	Data questions and simple inference	1. Ask and answer questions about picture-graph data 2. Combine information from two categories 3. Identify a statement supported by data 4. Explain one simple observation	Retrieve: Picture graphs; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop data questions and simple inference through accurate representations, explanation, strategy choice and one unfamiliar application.
2	10	20	5	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	Term 2 mastery and transfer	1. Retrieve numbers and operations within 20 2. Solve mixed one-step problems 3. Interpret a picture graph 4. Use a bar model independently 5. Check answers using inverse operations	Retrieve: Data questions and simple inference; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop term 2 mastery and transfer through accurate representations, explanation, strategy choice and one unfamiliar application.
3	1	21	4	Number & Algebra	NA-WN	Develop / Apply	MOE Core	Numbers to 100: place value	1. Count in ones and tens to 100 2. Represent 2-digit numbers as tens and ones 3. Read and write numerals and number words to 100 4. State the value of a digit	Retrieve: Term 2 mastery and transfer; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 100: place value through accurate representations, explanation, strategy choice and one unfamiliar application.
3	2	22	4	Number & Algebra	NA-WN	Develop / Apply	MOE Core	Numbers to 100: comparison and order	1. Compare 2-digit numbers by place value 2. Use greater than less than and equal language 3. Order sets of numbers within 100 4. Locate and estimate numbers on a number line	Retrieve: Numbers to 100: place value; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 100: comparison and order through accurate representations, explanation, strategy choice and one unfamiliar application.
3	3	23	4	Number & Algebra	NA-WN	Develop / Apply	MOE Core	Number sequences within 100	1. Count forward and backward by 1 2 5 and 10 2. Describe a number-sequence rule 3. Find missing terms in a sequence 4. Identify an incorrect term	Retrieve: Numbers to 100: comparison and order; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop number sequences within 100 through accurate representations, explanation, strategy choice and one unfamiliar application.

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3	4	24	4	Number & Algebra	NA-AS	Develop / Apply	MOE Core	Addition within 100 without renaming	1. Add tens and ones without renaming 2. Use place-value models for addition 3. Record addition vertically with aligned place values 4. Estimate a sum before calculating	Retrieve: Number sequences within 100; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop addition within 100 without renaming through accurate representations, explanation, strategy choice and one unfamiliar application.
3	5	25	4	Number & Algebra	NA-AS	Develop / Apply	MOE Core	Subtraction within 100 without renaming	1. Subtract tens and ones without renaming 2. Use place-value models for subtraction 3. Record subtraction vertically with aligned place values 4. Estimate a difference before calculating	Retrieve: Addition within 100 without renaming; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop subtraction within 100 without renaming through accurate representations, explanation, strategy choice and one unfamiliar application.
3	6	26	4	Number & Algebra	NA-AS	Develop / Apply	MOE Core	Addition within 100 with renaming	1. Regroup ten ones as one ten 2. Use the standard addition algorithm 3. Explain renaming with place-value language 4. Check a sum by reversing the operation	Retrieve: Subtraction within 100 without renaming; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop addition within 100 with renaming through accurate representations, explanation, strategy choice and one unfamiliar application.
3	7	27	4	Number & Algebra	NA-AS	Develop / Apply	MOE Core	Subtraction within 100 with renaming	1. Regroup one ten as ten ones 2. Use the standard subtraction algorithm 3. Explain renaming with place-value language 4. Check a difference using addition	Retrieve: Addition within 100 with renaming; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop subtraction within 100 with renaming through accurate representations, explanation, strategy choice and one unfamiliar application.
3	8	28	4	Number & Algebra	NA-AS	Develop / Apply	MOE Core	Mixed addition and subtraction within 100	1. Choose the correct operation from context 2. Solve one-step problems within 100 3. Find a missing number in an equation 4. Use estimation to detect unreasonable answers	Retrieve: Subtraction within 100 with renaming; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop mixed addition and subtraction within 100 through accurate representations, explanation, strategy choice and one unfamiliar application.
3	9	29	4	Measurement & Geometry	MG-MEAS	Introduce	MOE Core	Length	1. Compare lengths directly and indirectly 2. Measure with non-standard units consistently 3. Measure and draw lengths in centimetres 4. Solve simple length comparison problems	Retrieve: Mixed addition and subtraction within 100; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop length through accurate representations, explanation, strategy choice and one unfamiliar application.
3	10	30	5	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	Term 3 mastery and problem solving	1. Retrieve place value and algorithms within 100 2. Solve mixed number and length problems 3. Explain a method clearly 4. Correct a common place-value error 5. Solve one challenge problem with more than one strategy	Retrieve: Length; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop term 3 mastery and problem solving through accurate representations, explanation, strategy choice and one unfamiliar application.
4	1	31	4	Number & Algebra	NA-MD	Consolidate	MOE Core	Multiplication as equal groups	1. Interpret multiplication as equal groups 2. Use repeated addition to represent groups 3. Use $\times$ and $=$ correctly 4. Write multiplication sentences from arrays and stories	Retrieve: Term 3 mastery and problem solving; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop multiplication as equal groups through accurate representations, explanation, strategy choice and one unfamiliar application.
4	2	32	4	Number & Algebra	NA-MD	Consolidate	MOE Core	Division as sharing and grouping	1. Interpret division as equal sharing 2. Interpret division as grouping 3. Write division stories and number sentences 4. Recognise when equal sharing is not possible	Retrieve: Multiplication as equal groups; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop division as sharing and grouping through accurate representations, explanation, strategy choice and one unfamiliar application.
4	3	33	4	Number & Algebra	NA-MD	Consolidate	MOE Core	Multiplication and division relationship	1. Link multiplication and division facts 2. Build simple fact families 3. Find an unknown group size or number of groups 4. Check division using multiplication	Retrieve: Division as sharing and grouping; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop multiplication and division relationship through accurate representations, explanation, strategy choice and one unfamiliar application.
4	4	34	4	Number & Algebra	NA-MD	Consolidate	MOE Core	Multiplying within 40	1. Use skip counting and arrays 2. Apply 2 5 and 10 patterns informally 3. Use doubling for selected facts 4. Solve one-step multiplication problems	Retrieve: Multiplication and division relationship; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop multiplying within 40 through accurate representations, explanation, strategy choice and one unfamiliar application.
4	5	35	4	Number & Algebra	NA-MD	Consolidate	MOE Core	Dividing within 20	1. Divide quantities into equal groups 2. Use known multiplication facts to divide 3. Solve sharing and grouping problems 4. Interpret a simple remainder in context as an extension	Retrieve: Multiplying within 40; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop dividing within 20 through accurate representations, explanation, strategy choice and one unfamiliar application.

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4	6	36	4	Measurement & Geometry	MG-MEAS	Consolidate	MOE Core	Time to five minutes	1. Tell and write time to five minutes 2. Use a.m. and p.m. in familiar contexts 3. Use h and min correctly 4. Find durations of one hour and half an hour	Retrieve: Dividing within 20; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop time through accurate representations, explanation, strategy choice and one unfamiliar application.
4	7	37	4	Measurement & Geometry	MG-MEAS	Consolidate	MOE Core	Money	1. Recognise Singapore coins and notes 2. Count cents to \$1 and dollars to \$100 3. Make the same amount in different ways 4. Solve simple buying and change problems	Retrieve: Time; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop money through accurate representations, explanation, strategy choice and one unfamiliar application.
4	8	38	4	Measurement & Geometry	NA-FR	Consolidate	Readiness Bridge	Equal sharing and spatial reasoning foundations	1. Share objects into equal groups 2. Recognise equal and unequal parts without formal fraction notation 3. Identify one half of a simple shape or small set informally 4. Build and describe simple 2D and 3D arrangements	Retrieve: Money; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop equal sharing and spatial reasoning foundations through accurate representations, explanation, strategy choice and one unfamiliar application.
4	9	39	4	Problem Solving & Mathematical Processes	PS-REASON	Consolidate	Spiral Maintenance / Transfer	Integrated mathematical problem solving	1. Choose between addition subtraction multiplication and division 2. Use a drawing table or bar model 3. Solve a two-part problem with scaffolded steps 4. Explain why an answer is reasonable	Retrieve: Equal sharing and spatial reasoning foundations; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop integrated mathematical problem solving through accurate representations, explanation, strategy choice and one unfamiliar application.
4	10	40	5	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	P1 year-end mastery and P2 readiness	1. Master core number facts within 20 2. Apply addition and subtraction within 100 3. Interpret simple graphs measurement time and money 4. Use multiplication and division concepts 5. Communicate and check a complete solution	Retrieve: Integrated mathematical problem solving; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p1 year-end mastery and p2 readiness through accurate representations, explanation, strategy choice and one unfamiliar application.

Primary 1 Mathematics - Atomic Knowledge Point Register

Stable KP identifiers support assessment generation, error analysis and future curriculum maintenance.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
NA-WN-001	P1-W01-KP1	1	1	Numbers to 10: counting and quantity	NA-WN	Number & Algebra	Introduce	MOE Core	Count objects accurately using one-to-one correspondence	Demonstrate “Count objects accurately using one-to-one correspondence” accurately in one direct item and one age-appropriate contextual application.
NA-WN-002	P1-W01-KP2	1	1	Numbers to 10: counting and quantity	NA-WN	Number & Algebra	Introduce	MOE Core	Recognise numerals 0 to 10	Demonstrate “Recognise numerals 0 to 10” accurately in one direct item and one age-appropriate contextual application.
NA-WN-003	P1-W01-KP3	1	1	Numbers to 10: counting and quantity	NA-WN	Number & Algebra	Introduce	MOE Core	Match numerals to quantities	Demonstrate “Match numerals to quantities” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-001	P1-W01-KP4	1	1	Numbers to 10: counting and quantity	PS-REASON	Number & Algebra	Introduce	MOE Core	Subitise small quantities and explain how they are seen	Demonstrate “Subitise small quantities and explain how they are seen” by giving a correct conclusion and a mathematically valid reason.
NA-WN-004	P1-W02-KP1	2	1	Numbers to 10: representations and comparison	NA-WN	Number & Algebra	Develop	MOE Core	Represent numbers with objects, drawings, ten-frames and number lines	Demonstrate “Represent numbers with objects, drawings, ten-frames and number lines” accurately in one direct item and one age-appropriate contextual application.
NA-WN-005	P1-W02-KP2	2	1	Numbers to 10: representations and comparison	NA-WN	Number & Algebra	Develop	MOE Core	Read and write number words to ten	Demonstrate “Read and write number words to ten” accurately in one direct item and one age-appropriate contextual application.
NA-WN-006	P1-W02-KP3	2	1	Numbers to 10: representations and comparison	NA-WN	Number & Algebra	Develop	MOE Core	Compare two sets using more, fewer and equal	Demonstrate “Compare two sets using more, fewer and equal” accurately in one direct item and one age-appropriate contextual application.
NA-WN-007	P1-W02-KP4	2	1	Numbers to 10: representations and comparison	NA-WN	Number & Algebra	Develop	MOE Core	Order numbers from least to greatest	Demonstrate “Order numbers from least to greatest” accurately in one direct item and one age-appropriate contextual application.
NA-WN-008	P1-W03-KP1	3	1	Number bonds within 10	NA-WN	Number & Algebra	Develop	MOE Core	Decompose numbers within 10 in more than one way	Demonstrate “Decompose numbers within 10 in more than one way” accurately in one direct item and one age-appropriate contextual application.
NA-WN-009	P1-W03-KP2	3	1	Number bonds within 10	NA-WN	Number & Algebra	Develop	MOE Core	Complete part-part-whole number bonds	Demonstrate “Complete part-part-whole number bonds” accurately in one direct item and one age-appropriate contextual application.
NA-WN-010	P1-W03-KP3	3	1	Number bonds within 10	NA-WN	Number & Algebra	Develop	MOE Core	Identify missing parts in number bonds	Demonstrate “Identify missing parts in number bonds” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-002	P1-W03-KP4	3	1	Number bonds within 10	PS-REASON	Number & Algebra	Develop	MOE Core	Explain commutative pairs using concrete models	Demonstrate “Explain commutative pairs using concrete models” by giving a correct conclusion and a mathematically valid reason.
NA-AS-001	P1-W04-KP1	4	1	Addition concepts within 10	NA-AS	Number & Algebra	Introduce	MOE Core	Interpret addition as putting together and adding on	Demonstrate “Interpret addition as putting together and adding on” accurately in one direct item and one age-appropriate contextual application.
NA-AS-002	P1-W04-KP2	4	1	Addition concepts within 10	NA-AS	Number & Algebra	Introduce	MOE Core	Use + and = correctly	Demonstrate “Use + and = correctly” accurately in one direct item and one age-appropriate contextual application.
NA-AS-003	P1-W04-KP3	4	1	Addition concepts within 10	NA-AS	Number & Algebra	Introduce	MOE Core	Write addition sentences from pictures and stories	Demonstrate “Write addition sentences from pictures and stories” accurately in one direct item and one age-appropriate contextual application.
NA-AS-004	P1-W04-KP4	4	1	Addition concepts within 10	NA-AS	Number & Algebra	Introduce	MOE Core	Find sums within 10 using counting-on and number bonds	Demonstrate “Find sums within 10 using counting-on and number bonds” accurately in one direct item and one age-appropriate contextual application.
NA-AS-005	P1-W05-KP1	5	1	Subtraction concepts within 10	NA-AS	Number & Algebra	Develop	MOE Core	Interpret subtraction as taking away and finding a difference	Demonstrate “Interpret subtraction as taking away and finding a difference” accurately in one direct item and one age-appropriate contextual application.
NA-AS-006	P1-W05-KP2	5	1	Subtraction concepts within 10	NA-AS	Number & Algebra	Develop	MOE Core	Use – and = correctly	Demonstrate “Use – and = correctly” accurately in one direct item and one age-appropriate contextual application.
NA-AS-007	P1-W05-KP3	5	1	Subtraction concepts within 10	NA-AS	Number & Algebra	Develop	MOE Core	Write subtraction sentences from pictures and stories	Demonstrate “Write subtraction sentences from pictures and stories” accurately in one direct item and one age-appropriate contextual application.

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NA-AS-008	P1-W05-KP4	5	1	Subtraction concepts within 10	NA-AS	Number & Algebra	Develop	MOE Core	Find differences within 10 using concrete and pictorial models	Demonstrate “Find differences within 10 using concrete and pictorial models” accurately in one direct item and one age-appropriate contextual application.
NA-AS-009	P1-W06-KP1	6	1	Addition and subtraction relationships	NA-AS	Number & Algebra	Develop	MOE Core	Relate addition and subtraction using inverse facts	Demonstrate “Relate addition and subtraction using inverse facts” accurately in one direct item and one age-appropriate contextual application.
NA-AS-010	P1-W06-KP2	6	1	Addition and subtraction relationships	NA-AS	Number & Algebra	Develop	MOE Core	Add more than two one-digit numbers	Demonstrate “Add more than two one-digit numbers” accurately in one direct item and one age-appropriate contextual application.
NA-AS-011	P1-W06-KP3	6	1	Addition and subtraction relationships	NA-AS	Number & Algebra	Develop	MOE Core	Build fact families within 10	Demonstrate “Build fact families within 10” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-001	P1-W06-KP4	6	1	Addition and subtraction relationships	PS-CHECK	Number & Algebra	Develop	MOE Core	Check subtraction using addition	Demonstrate “Check subtraction using addition” by identifying or preventing an error and showing a valid check.
NA-WN-011	P1-W07-KP1	7	1	Ordinal numbers and positions	NA-WN	Number & Algebra	Develop	MOE Core	Use first to tenth and 1st to 10th	Demonstrate “Use first to tenth and 1st to 10th” accurately in one direct item and one age-appropriate contextual application.
NA-WN-012	P1-W07-KP2	7	1	Ordinal numbers and positions	NA-WN	Number & Algebra	Develop	MOE Core	Describe position in an ordered line	Demonstrate “Describe position in an ordered line” accurately in one direct item and one age-appropriate contextual application.
NA-WN-013	P1-W07-KP3	7	1	Ordinal numbers and positions	NA-WN	Number & Algebra	Develop	MOE Core	Distinguish ordinal position from quantity	Demonstrate “Distinguish ordinal position from quantity” accurately in one direct item and one age-appropriate contextual application.
NA-WN-014	P1-W07-KP4	7	1	Ordinal numbers and positions	NA-WN	Number & Algebra	Develop	MOE Core	Solve simple position-change problems	Demonstrate “Solve simple position-change problems” accurately in one direct item and one age-appropriate contextual application.
MG-GEO-001	P1-W08-KP1	8	1	2D shapes: identification, composition and grids	MG-GEO	Measurement & Geometry	Develop	MOE Core	Identify and name rectangles squares triangles circles semicircles and quarter circles	Demonstrate “Identify and name rectangles squares triangles circles semicircles and quarter circles” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-002	P1-W08-KP2	8	1	2D shapes: identification, composition and grids	MG-GEO	Measurement & Geometry	Develop	MOE Core	Form different figures using rectangles squares triangles semicircles and quarter circles	Demonstrate “Form different figures using rectangles squares triangles semicircles and quarter circles” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-003	P1-W08-KP3	8	1	2D shapes: identification, composition and grids	MG-GEO	Measurement & Geometry	Develop	MOE Core	Identify the 2D shapes that make up a composite figure	Demonstrate “Identify the 2D shapes that make up a composite figure” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-004	P1-W08-KP4	8	1	2D shapes: identification, composition and grids	MG-GEO	Measurement & Geometry	Develop	MOE Core	Copy a figure accurately on a dot grid or square grid	Demonstrate “Copy a figure accurately on a dot grid or square grid” using an accurate diagram, stated property or geometric construction as appropriate.
NA-ALG-001	P1-W09-KP1	9	1	Patterns and early algebraic thinking	NA-ALG	Number & Algebra	Introduce	MOE Core	Continue repeating patterns	Demonstrate “Continue repeating patterns” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-002	P1-W09-KP2	9	1	Patterns and early algebraic thinking	NA-ALG	Number & Algebra	Introduce	MOE Core	Identify the repeating unit	Demonstrate “Identify the repeating unit” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-003	P1-W09-KP3	9	1	Patterns and early algebraic thinking	NA-ALG	Number & Algebra	Introduce	MOE Core	Create and describe a pattern	Demonstrate “Create and describe a pattern” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-004	P1-W09-KP4	9	1	Patterns and early algebraic thinking	NA-ALG	Number & Algebra	Introduce	MOE Core	Find a missing item in a visual or number pattern	Demonstrate “Find a missing item in a visual or number pattern” using a correct rule, expression or equation and verify the result where appropriate.
NA-WN-015	P1-W10-KP1	10	1	Term 1 mastery and reasoning	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve numbers bonds and facts within 10	Demonstrate “Retrieve numbers bonds and facts within 10” accurately in one direct item and one age-appropriate contextual application.
NA-AS-012	P1-W10-KP2	10	1	Term 1 mastery and reasoning	NA-AS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve one-step addition and subtraction stories	Demonstrate “Solve one-step addition and subtraction stories” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-003	P1-W10-KP3	10	1	Term 1 mastery and reasoning	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Explain a chosen strategy using words or pictures	Demonstrate “Explain a chosen strategy using words or pictures” by giving a correct conclusion and a mathematically valid reason.
PS-CHECK-002	P1-W10-KP4	10	1	Term 1 mastery and reasoning	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Identify and correct a simple mathematical error	Demonstrate “Identify and correct a simple mathematical error” by identifying or preventing an error and showing a valid check.

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PS-HEUR-001	P1-W10-KP5	10	1	Term 1 mastery and reasoning	PS-HEUR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Complete a short non-routine pattern task	Demonstrate “Complete a short non-routine pattern task” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-WN-016	P1-W11-KP1	11	2	Numbers to 20	NA-WN	Number & Algebra	Develop	MOE Core	Count forward and backward within 20	Demonstrate “Count forward and backward within 20” accurately in one direct item and one age-appropriate contextual application.
NA-WN-017	P1-W11-KP2	11	2	Numbers to 20	NA-WN	Number & Algebra	Develop	MOE Core	Represent teen numbers as ten and ones	Demonstrate “Represent teen numbers as ten and ones” accurately in one direct item and one age-appropriate contextual application.
NA-WN-018	P1-W11-KP3	11	2	Numbers to 20	NA-WN	Number & Algebra	Develop	MOE Core	Read and write numerals and number words to 20	Demonstrate “Read and write numerals and number words to 20” accurately in one direct item and one age-appropriate contextual application.
NA-WN-019	P1-W11-KP4	11	2	Numbers to 20	NA-WN	Number & Algebra	Develop	MOE Core	Compare and order numbers within 20	Demonstrate “Compare and order numbers within 20” accurately in one direct item and one age-appropriate contextual application.
NA-WN-020	P1-W12-KP1	12	2	Number bonds to 20	NA-WN	Number & Algebra	Develop	MOE Core	Decompose teen numbers into ten and ones	Demonstrate “Decompose teen numbers into ten and ones” accurately in one direct item and one age-appropriate contextual application.
NA-WN-021	P1-W12-KP2	12	2	Number bonds to 20	NA-WN	Number & Algebra	Develop	MOE Core	Build number bonds within 20	Demonstrate “Build number bonds within 20” accurately in one direct item and one age-appropriate contextual application.
NA-WN-022	P1-W12-KP3	12	2	Number bonds to 20	NA-WN	Number & Algebra	Develop	MOE Core	Use make-ten combinations	Demonstrate “Use make-ten combinations” accurately in one direct item and one age-appropriate contextual application.
NA-WN-023	P1-W12-KP4	12	2	Number bonds to 20	NA-WN	Number & Algebra	Develop	MOE Core	Find missing parts within 20	Demonstrate “Find missing parts within 20” accurately in one direct item and one age-appropriate contextual application.
NA-AS-013	P1-W13-KP1	13	2	Addition within 20	NA-AS	Number & Algebra	Develop	MOE Core	Add within 20 using make-ten	Demonstrate “Add within 20 using make-ten” accurately in one direct item and one age-appropriate contextual application.
NA-AS-014	P1-W13-KP2	13	2	Addition within 20	NA-AS	Number & Algebra	Develop	MOE Core	Use counting-on efficiently	Demonstrate “Use counting-on efficiently” accurately in one direct item and one age-appropriate contextual application.
NA-AS-015	P1-W13-KP3	13	2	Addition within 20	NA-AS	Number & Algebra	Develop	MOE Core	Add three one-digit numbers	Demonstrate “Add three one-digit numbers” accurately in one direct item and one age-appropriate contextual application.
NA-AS-016	P1-W13-KP4	13	2	Addition within 20	NA-AS	Number & Algebra	Develop	MOE Core	Choose an efficient addition strategy	Demonstrate “Choose an efficient addition strategy” accurately in one direct item and one age-appropriate contextual application.
NA-AS-017	P1-W14-KP1	14	2	Subtraction within 20	NA-AS	Number & Algebra	Develop	MOE Core	Subtract within 20 by taking from ten	Demonstrate “Subtract within 20 by taking from ten” accurately in one direct item and one age-appropriate contextual application.
NA-AS-018	P1-W14-KP2	14	2	Subtraction within 20	NA-AS	Number & Algebra	Develop	MOE Core	Use counting-back and think-addition	Demonstrate “Use counting-back and think-addition” accurately in one direct item and one age-appropriate contextual application.
NA-AS-019	P1-W14-KP3	14	2	Subtraction within 20	NA-AS	Number & Algebra	Develop	MOE Core	Find a difference by comparison	Demonstrate “Find a difference by comparison” accurately in one direct item and one age-appropriate contextual application.
NA-AS-020	P1-W14-KP4	14	2	Subtraction within 20	NA-AS	Number & Algebra	Develop	MOE Core	Choose an efficient subtraction strategy	Demonstrate “Choose an efficient subtraction strategy” accurately in one direct item and one age-appropriate contextual application.
NA-AS-021	P1-W15-KP1	15	2	Mental calculation within 20	NA-AS	Number & Algebra	Develop	MOE Core	Recall core addition facts within 20	Demonstrate “Recall core addition facts within 20” accurately in one direct item and one age-appropriate contextual application.
NA-AS-022	P1-W15-KP2	15	2	Mental calculation within 20	NA-AS	Number & Algebra	Develop	MOE Core	Recall related subtraction facts	Demonstrate “Recall related subtraction facts” accurately in one direct item and one age-appropriate contextual application.
NA-AS-023	P1-W15-KP3	15	2	Mental calculation within 20	NA-AS	Number & Algebra	Develop	MOE Core	Use doubles and near doubles	Demonstrate “Use doubles and near doubles” accurately in one direct item and one age-appropriate contextual application.
NA-AS-024	P1-W15-KP4	15	2	Mental calculation within 20	NA-AS	Number & Algebra	Develop	MOE Core	Use compensation for simple mental sums	Demonstrate “Use compensation for simple mental sums” accurately in one direct item and one age-appropriate contextual application.

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PS-REASON-004	P1-W16-KP1	16	2	One-step word problems	PS-REASON	Problem Solving & Mathematical Processes	Develop	MOE Core	Identify the whole and parts in a story	Demonstrate “Identify the whole and parts in a story” by giving a correct conclusion and a mathematically valid reason.
NA-AS-025	P1-W16-KP2	16	2	One-step word problems	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Distinguish addition from subtraction situations	Demonstrate “Distinguish addition from subtraction situations” accurately in one direct item and one age-appropriate contextual application.
PS-MODEL-001	P1-W16-KP3	16	2	One-step word problems	PS-MODEL	Problem Solving & Mathematical Processes	Develop	MOE Core	Represent a problem with a bar model	Demonstrate “Represent a problem with a bar model” using an accurate labelled model that leads to the answer.
NA-WN-024	P1-W16-KP4	16	2	One-step word problems	NA-WN	Problem Solving & Mathematical Processes	Develop	MOE Core	Write a complete number sentence and answer	Demonstrate “Write a complete number sentence and answer” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-005	P1-W17-KP1	17	2	Comparison problems	PS-REASON	Problem Solving & Mathematical Processes	Develop	MOE Core	Interpret more than and fewer than	Demonstrate “Interpret more than and fewer than” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-006	P1-W17-KP2	17	2	Comparison problems	PS-REASON	Problem Solving & Mathematical Processes	Develop	MOE Core	Find how many more or fewer	Demonstrate “Find how many more or fewer” by giving a correct conclusion and a mathematically valid reason.
PS-MODEL-002	P1-W17-KP3	17	2	Comparison problems	PS-MODEL	Problem Solving & Mathematical Processes	Develop	MOE Core	Use a comparison bar model	Demonstrate “Use a comparison bar model” using an accurate labelled model that leads to the answer.
PS-CHECK-003	P1-W17-KP4	17	2	Comparison problems	PS-CHECK	Problem Solving & Mathematical Processes	Develop	MOE Core	Check whether the answer is reasonable	Demonstrate “Check whether the answer is reasonable” by identifying or preventing an error and showing a valid check.
ST-DATA-001	P1-W18-KP1	18	2	Picture graphs	ST-DATA	Statistics	Introduce	MOE Core	Read a one-to-one picture graph	Demonstrate “Read a one-to-one picture graph” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-002	P1-W18-KP2	18	2	Picture graphs	ST-DATA	Statistics	Introduce	MOE Core	Identify greatest least and equal categories	Demonstrate “Identify greatest least and equal categories” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-003	P1-W18-KP3	18	2	Picture graphs	ST-DATA	Statistics	Introduce	MOE Core	Find totals and differences from a graph	Demonstrate “Find totals and differences from a graph” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-004	P1-W18-KP4	18	2	Picture graphs	ST-DATA	Statistics	Introduce	MOE Core	Complete a graph from given data	Demonstrate “Complete a graph from given data” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-005	P1-W19-KP1	19	2	Data questions and simple inference	ST-DATA	Statistics	Develop	MOE Core	Ask and answer questions about picture-graph data	Demonstrate “Ask and answer questions about picture-graph data” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-006	P1-W19-KP2	19	2	Data questions and simple inference	ST-DATA	Statistics	Develop	MOE Core	Combine information from two categories	Demonstrate “Combine information from two categories” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-007	P1-W19-KP3	19	2	Data questions and simple inference	ST-DATA	Statistics	Develop	MOE Core	Identify a statement supported by data	Demonstrate “Identify a statement supported by data” by extracting or organising data accurately and supporting the answer with evidence.
PS-REASON-007	P1-W19-KP4	19	2	Data questions and simple inference	PS-REASON	Statistics	Develop	MOE Core	Explain one simple observation	Demonstrate “Explain one simple observation” by giving a correct conclusion and a mathematically valid reason.
NA-WN-025	P1-W20-KP1	20	2	Term 2 mastery and transfer	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve numbers and operations within 20	Demonstrate “Retrieve numbers and operations within 20” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-008	P1-W20-KP2	20	2	Term 2 mastery and transfer	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve mixed one-step problems	Demonstrate “Solve mixed one-step problems” by giving a correct conclusion and a mathematically valid reason.
ST-DATA-008	P1-W20-KP3	20	2	Term 2 mastery and transfer	ST-DATA	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret a picture graph	Demonstrate “Interpret a picture graph” by extracting or organising data accurately and supporting the answer with evidence.
PS-MODEL-003	P1-W20-KP4	20	2	Term 2 mastery and transfer	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use a bar model independently	Demonstrate “Use a bar model independently” using an accurate labelled model that leads to the answer.
PS-CHECK-004	P1-W20-KP5	20	2	Term 2 mastery and transfer	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Check answers using inverse operations	Demonstrate “Check answers using inverse operations” by identifying or preventing an error and showing a valid check.

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NA-WN-026	P1-W21-KP1	21	3	Numbers to 100: place value	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Count in ones and tens to 100	Demonstrate “Count in ones and tens to 100” accurately in one direct item and one age-appropriate contextual application.
NA-WN-027	P1-W21-KP2	21	3	Numbers to 100: place value	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Represent 2-digit numbers as tens and ones	Demonstrate “Represent 2-digit numbers as tens and ones” accurately in one direct item and one age-appropriate contextual application.
NA-WN-028	P1-W21-KP3	21	3	Numbers to 100: place value	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Read and write numerals and number words to 100	Demonstrate “Read and write numerals and number words to 100” accurately in one direct item and one age-appropriate contextual application.
NA-WN-029	P1-W21-KP4	21	3	Numbers to 100: place value	NA-WN	Number & Algebra	Develop / Apply	MOE Core	State the value of a digit	Demonstrate “State the value of a digit” accurately in one direct item and one age-appropriate contextual application.
NA-WN-030	P1-W22-KP1	22	3	Numbers to 100: comparison and order	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Compare 2-digit numbers by place value	Demonstrate “Compare 2-digit numbers by place value” accurately in one direct item and one age-appropriate contextual application.
NA-WN-031	P1-W22-KP2	22	3	Numbers to 100: comparison and order	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Use greater than less than and equal language	Demonstrate “Use greater than less than and equal language” accurately in one direct item and one age-appropriate contextual application.
NA-WN-032	P1-W22-KP3	22	3	Numbers to 100: comparison and order	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Order sets of numbers within 100	Demonstrate “Order sets of numbers within 100” accurately in one direct item and one age-appropriate contextual application.
NA-WN-033	P1-W22-KP4	22	3	Numbers to 100: comparison and order	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Locate and estimate numbers on a number line	Demonstrate “Locate and estimate numbers on a number line” accurately in one direct item and one age-appropriate contextual application.
NA-WN-034	P1-W23-KP1	23	3	Number sequences within 100	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Count forward and backward by 1 2 5 and 10	Demonstrate “Count forward and backward by 1 2 5 and 10” accurately in one direct item and one age-appropriate contextual application.
NA-WN-035	P1-W23-KP2	23	3	Number sequences within 100	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Describe a number-sequence rule	Demonstrate “Describe a number-sequence rule” accurately in one direct item and one age-appropriate contextual application.
NA-WN-036	P1-W23-KP3	23	3	Number sequences within 100	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Find missing terms in a sequence	Demonstrate “Find missing terms in a sequence” accurately in one direct item and one age-appropriate contextual application.
NA-WN-037	P1-W23-KP4	23	3	Number sequences within 100	NA-WN	Number & Algebra	Develop / Apply	MOE Core	Identify an incorrect term	Demonstrate “Identify an incorrect term” accurately in one direct item and one age-appropriate contextual application.
NA-AS-026	P1-W24-KP1	24	3	Addition within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Add tens and ones without renaming	Demonstrate “Add tens and ones without renaming” accurately in one direct item and one age-appropriate contextual application.
NA-AS-027	P1-W24-KP2	24	3	Addition within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Use place-value models for addition	Demonstrate “Use place-value models for addition” accurately in one direct item and one age-appropriate contextual application.
NA-AS-028	P1-W24-KP3	24	3	Addition within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Record addition vertically with aligned place values	Demonstrate “Record addition vertically with aligned place values” accurately in one direct item and one age-appropriate contextual application.
NA-AS-029	P1-W24-KP4	24	3	Addition within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Estimate a sum before calculating	Demonstrate “Estimate a sum before calculating” accurately in one direct item and one age-appropriate contextual application.
NA-AS-030	P1-W25-KP1	25	3	Subtraction within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Subtract tens and ones without renaming	Demonstrate “Subtract tens and ones without renaming” accurately in one direct item and one age-appropriate contextual application.
NA-AS-031	P1-W25-KP2	25	3	Subtraction within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Use place-value models for subtraction	Demonstrate “Use place-value models for subtraction” accurately in one direct item and one age-appropriate contextual application.
NA-AS-032	P1-W25-KP3	25	3	Subtraction within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Record subtraction vertically with aligned place values	Demonstrate “Record subtraction vertically with aligned place values” accurately in one direct item and one age-appropriate contextual application.
NA-AS-033	P1-W25-KP4	25	3	Subtraction within 100 without renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Estimate a difference before calculating	Demonstrate “Estimate a difference before calculating” accurately in one direct item and one age-appropriate contextual application.
NA-AS-034	P1-W26-KP1	26	3	Addition within 100 with renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Regroup ten ones as one ten	Demonstrate “Regroup ten ones as one ten” accurately in one direct item and one age-appropriate contextual application.

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NA-AS-035	P1-W26-KP2	26	3	Addition within 100 with renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Use the standard addition algorithm	Demonstrate “Use the standard addition algorithm” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-009	P1-W26-KP3	26	3	Addition within 100 with renaming	PS-REASON	Number & Algebra	Develop / Apply	MOE Core	Explain renaming with place-value language	Demonstrate “Explain renaming with place-value language” by giving a correct conclusion and a mathematically valid reason.
PS-CHECK-005	P1-W26-KP4	26	3	Addition within 100 with renaming	PS-CHECK	Number & Algebra	Develop / Apply	MOE Core	Check a sum by reversing the operation	Demonstrate “Check a sum by reversing the operation” by identifying or preventing an error and showing a valid check.
NA-AS-036	P1-W27-KP1	27	3	Subtraction within 100 with renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Regroup one ten as ten ones	Demonstrate “Regroup one ten as ten ones” accurately in one direct item and one age-appropriate contextual application.
NA-AS-037	P1-W27-KP2	27	3	Subtraction within 100 with renaming	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Use the standard subtraction algorithm	Demonstrate “Use the standard subtraction algorithm” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-010	P1-W27-KP3	27	3	Subtraction within 100 with renaming	PS-REASON	Number & Algebra	Develop / Apply	MOE Core	Explain renaming with place-value language	Demonstrate “Explain renaming with place-value language” by giving a correct conclusion and a mathematically valid reason.
PS-CHECK-006	P1-W27-KP4	27	3	Subtraction within 100 with renaming	PS-CHECK	Number & Algebra	Develop / Apply	MOE Core	Check a difference using addition	Demonstrate “Check a difference using addition” by identifying or preventing an error and showing a valid check.
NA-AS-038	P1-W28-KP1	28	3	Mixed addition and subtraction within 100	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Choose the correct operation from context	Demonstrate “Choose the correct operation from context” accurately in one direct item and one age-appropriate contextual application.
NA-AS-039	P1-W28-KP2	28	3	Mixed addition and subtraction within 100	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Solve one-step problems within 100	Demonstrate “Solve one-step problems within 100” accurately in one direct item and one age-appropriate contextual application.
NA-AS-040	P1-W28-KP3	28	3	Mixed addition and subtraction within 100	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Find a missing number in an equation	Demonstrate “Find a missing number in an equation” accurately in one direct item and one age-appropriate contextual application.
NA-AS-041	P1-W28-KP4	28	3	Mixed addition and subtraction within 100	NA-AS	Number & Algebra	Develop / Apply	MOE Core	Use estimation to detect unreasonable answers	Demonstrate “Use estimation to detect unreasonable answers” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-001	P1-W29-KP1	29	3	Length	MG-MEAS	Measurement & Geometry	Introduce	MOE Core	Compare lengths directly and indirectly	Demonstrate “Compare lengths directly and indirectly” with correct measurement, calculation, notation and units.
MG-MEAS-002	P1-W29-KP2	29	3	Length	MG-MEAS	Measurement & Geometry	Introduce	MOE Core	Measure with non-standard units consistently	Demonstrate “Measure with non-standard units consistently” with correct measurement, calculation, notation and units.
MG-MEAS-003	P1-W29-KP3	29	3	Length	MG-MEAS	Measurement & Geometry	Introduce	MOE Core	Measure and draw lengths in centimetres	Demonstrate “Measure and draw lengths in centimetres” with correct measurement, calculation, notation and units.
MG-MEAS-004	P1-W29-KP4	29	3	Length	MG-MEAS	Measurement & Geometry	Introduce	MOE Core	Solve simple length comparison problems	Demonstrate “Solve simple length comparison problems” with correct measurement, calculation, notation and units.
NA-WN-038	P1-W30-KP1	30	3	Term 3 mastery and problem solving	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve place value and algorithms within 100	Demonstrate “Retrieve place value and algorithms within 100” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-005	P1-W30-KP2	30	3	Term 3 mastery and problem solving	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve mixed number and length problems	Demonstrate “Solve mixed number and length problems” with correct measurement, calculation, notation and units.
PS-REASON-011	P1-W30-KP3	30	3	Term 3 mastery and problem solving	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Explain a method clearly	Demonstrate “Explain a method clearly” by giving a correct conclusion and a mathematically valid reason.
PS-CHECK-007	P1-W30-KP4	30	3	Term 3 mastery and problem solving	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Correct a common place-value error	Demonstrate “Correct a common place-value error” by identifying or preventing an error and showing a valid check.
PS-REASON-012	P1-W30-KP5	30	3	Term 3 mastery and problem solving	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve one challenge problem with more than one strategy	Demonstrate “Solve one challenge problem with more than one strategy” by giving a correct conclusion and a mathematically valid reason.
NA-MD-001	P1-W31-KP1	31	4	Multiplication as equal groups	NA-MD	Number & Algebra	Consolidate	MOE Core	Interpret multiplication as equal groups	Demonstrate “Interpret multiplication as equal groups” accurately in one direct item and one age-appropriate contextual application.

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NA-MD-002	P1-W31-KP2	31	4	Multiplication as equal groups	NA-MD	Number & Algebra	Consolidate	MOE Core	Use repeated addition to represent groups	Demonstrate “Use repeated addition to represent groups” accurately in one direct item and one age-appropriate contextual application.
NA-MD-003	P1-W31-KP3	31	4	Multiplication as equal groups	NA-MD	Number & Algebra	Consolidate	MOE Core	Use × and = correctly	Demonstrate “Use × and = correctly” accurately in one direct item and one age-appropriate contextual application.
NA-MD-004	P1-W31-KP4	31	4	Multiplication as equal groups	NA-MD	Number & Algebra	Consolidate	MOE Core	Write multiplication sentences from arrays and stories	Demonstrate “Write multiplication sentences from arrays and stories” accurately in one direct item and one age-appropriate contextual application.
NA-MD-005	P1-W32-KP1	32	4	Division as sharing and grouping	NA-MD	Number & Algebra	Consolidate	MOE Core	Interpret division as equal sharing	Demonstrate “Interpret division as equal sharing” accurately in one direct item and one age-appropriate contextual application.
NA-MD-006	P1-W32-KP2	32	4	Division as sharing and grouping	NA-MD	Number & Algebra	Consolidate	MOE Core	Interpret division as grouping	Demonstrate “Interpret division as grouping” accurately in one direct item and one age-appropriate contextual application.
NA-MD-007	P1-W32-KP3	32	4	Division as sharing and grouping	NA-MD	Number & Algebra	Consolidate	MOE Core	Write division stories and number sentences	Demonstrate “Write division stories and number sentences” accurately in one direct item and one age-appropriate contextual application.
NA-MD-008	P1-W32-KP4	32	4	Division as sharing and grouping	NA-MD	Number & Algebra	Consolidate	MOE Core	Recognise when equal sharing is not possible	Demonstrate “Recognise when equal sharing is not possible” accurately in one direct item and one age-appropriate contextual application.
NA-MD-009	P1-W33-KP1	33	4	Multiplication and division relationship	NA-MD	Number & Algebra	Consolidate	MOE Core	Link multiplication and division facts	Demonstrate “Link multiplication and division facts” accurately in one direct item and one age-appropriate contextual application.
NA-MD-010	P1-W33-KP2	33	4	Multiplication and division relationship	NA-MD	Number & Algebra	Consolidate	MOE Core	Build simple fact families	Demonstrate “Build simple fact families” accurately in one direct item and one age-appropriate contextual application.
NA-MD-011	P1-W33-KP3	33	4	Multiplication and division relationship	NA-MD	Number & Algebra	Consolidate	MOE Core	Find an unknown group size or number of groups	Demonstrate “Find an unknown group size or number of groups” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-008	P1-W33-KP4	33	4	Multiplication and division relationship	PS-CHECK	Number & Algebra	Consolidate	MOE Core	Check division using multiplication	Demonstrate “Check division using multiplication” by identifying or preventing an error and showing a valid check.
NA-MD-012	P1-W34-KP1	34	4	Multiplying within 40	NA-MD	Number & Algebra	Consolidate	MOE Core	Use skip counting and arrays	Demonstrate “Use skip counting and arrays” accurately in one direct item and one age-appropriate contextual application.
NA-MD-013	P1-W34-KP2	34	4	Multiplying within 40	NA-MD	Number & Algebra	Consolidate	MOE Core	Apply 2 5 and 10 patterns informally	Demonstrate “Apply 2 5 and 10 patterns informally” accurately in one direct item and one age-appropriate contextual application.
NA-MD-014	P1-W34-KP3	34	4	Multiplying within 40	NA-MD	Number & Algebra	Consolidate	MOE Core	Use doubling for selected facts	Demonstrate “Use doubling for selected facts” accurately in one direct item and one age-appropriate contextual application.
NA-MD-015	P1-W34-KP4	34	4	Multiplying within 40	NA-MD	Number & Algebra	Consolidate	MOE Core	Solve one-step multiplication problems	Demonstrate “Solve one-step multiplication problems” accurately in one direct item and one age-appropriate contextual application.
NA-MD-016	P1-W35-KP1	35	4	Dividing within 20	NA-MD	Number & Algebra	Consolidate	MOE Core	Divide quantities into equal groups	Demonstrate “Divide quantities into equal groups” accurately in one direct item and one age-appropriate contextual application.
NA-MD-017	P1-W35-KP2	35	4	Dividing within 20	NA-MD	Number & Algebra	Consolidate	MOE Core	Use known multiplication facts to divide	Demonstrate “Use known multiplication facts to divide” accurately in one direct item and one age-appropriate contextual application.
NA-MD-018	P1-W35-KP3	35	4	Dividing within 20	NA-MD	Number & Algebra	Consolidate	MOE Core	Solve sharing and grouping problems	Demonstrate “Solve sharing and grouping problems” accurately in one direct item and one age-appropriate contextual application.
NA-MD-019	P1-W35-KP4	35	4	Dividing within 20	NA-MD	Number & Algebra	Consolidate	MOE Core	Interpret a simple remainder in context as an extension	Demonstrate “Interpret a simple remainder in context as an extension” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-006	P1-W36-KP1	36	4	Time to five minutes	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Tell and write time to five minutes	Demonstrate “Tell and write time to five minutes” with correct measurement, calculation, notation and units.
MG-MEAS-007	P1-W36-KP2	36	4	Time to five minutes	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Use a.m. and p.m. in familiar contexts	Demonstrate “Use a.m. and p.m. in familiar contexts” with correct measurement, calculation, notation and units.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
MG-MEAS-008	P1-W36-KP3	36	4	Time to five minutes	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Use h and min correctly	Demonstrate “Use h and min correctly” with correct measurement, calculation, notation and units.
MG-MEAS-009	P1-W36-KP4	36	4	Time to five minutes	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Find durations of one hour and half an hour	Demonstrate “Find durations of one hour and half an hour” with correct measurement, calculation, notation and units.
MG-MEAS-010	P1-W37-KP1	37	4	Money	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Recognise Singapore coins and notes	Demonstrate “Recognise Singapore coins and notes” with correct measurement, calculation, notation and units.
MG-MEAS-011	P1-W37-KP2	37	4	Money	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Count cents to \$1 and dollars to \$100	Demonstrate “Count cents to \$1 and dollars to \$100” with correct measurement, calculation, notation and units.
MG-MEAS-012	P1-W37-KP3	37	4	Money	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Make the same amount in different ways	Demonstrate “Make the same amount in different ways” with correct measurement, calculation, notation and units.
MG-MEAS-013	P1-W37-KP4	37	4	Money	MG-MEAS	Measurement & Geometry	Consolidate	MOE Core	Solve simple buying and change problems	Demonstrate “Solve simple buying and change problems” with correct measurement, calculation, notation and units.
NA-FR-001	P1-W38-KP1	38	4	Equal sharing and spatial reasoning foundations	NA-FR	Measurement & Geometry	Consolidate	Readiness Bridge	Share objects into equal groups	Demonstrate “Share objects into equal groups” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-002	P1-W38-KP2	38	4	Equal sharing and spatial reasoning foundations	NA-FR	Measurement & Geometry	Consolidate	Readiness Bridge	Recognise equal and unequal parts without formal fraction notation	Demonstrate “Recognise equal and unequal parts without formal fraction notation” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-003	P1-W38-KP3	38	4	Equal sharing and spatial reasoning foundations	NA-FR	Measurement & Geometry	Consolidate	Readiness Bridge	Identify one half of a simple shape or small set informally	Demonstrate “Identify one half of a simple shape or small set informally” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-004	P1-W38-KP4	38	4	Equal sharing and spatial reasoning foundations	NA-FR	Measurement & Geometry	Consolidate	Readiness Bridge	Build and describe simple 2D and 3D arrangements	Demonstrate “Build and describe simple 2D and 3D arrangements” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-MD-020	P1-W39-KP1	39	4	Integrated mathematical problem solving	NA-MD	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Choose between addition subtraction multiplication and division	Demonstrate “Choose between addition subtraction multiplication and division” accurately in one direct item and one age-appropriate contextual application.
PS-MODEL-004	P1-W39-KP2	39	4	Integrated mathematical problem solving	PS-MODEL	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Use a drawing table or bar model	Demonstrate “Use a drawing table or bar model” using an accurate labelled model that leads to the answer.
PS-REASON-013	P1-W39-KP3	39	4	Integrated mathematical problem solving	PS-REASON	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Solve a two-part problem with scaffolded steps	Demonstrate “Solve a two-part problem with scaffolded steps” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-014	P1-W39-KP4	39	4	Integrated mathematical problem solving	PS-REASON	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Explain why an answer is reasonable	Demonstrate “Explain why an answer is reasonable” by giving a correct conclusion and a mathematically valid reason.
NA-WN-039	P1-W40-KP1	40	4	P1 year-end mastery and P2 readiness	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Master core number facts within 20	Demonstrate “Master core number facts within 20” accurately in one direct item and one age-appropriate contextual application.
NA-AS-042	P1-W40-KP2	40	4	P1 year-end mastery and P2 readiness	NA-AS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply addition and subtraction within 100	Demonstrate “Apply addition and subtraction within 100” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-014	P1-W40-KP3	40	4	P1 year-end mastery and P2 readiness	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret simple graphs measurement time and money	Demonstrate “Interpret simple graphs measurement time and money” with correct measurement, calculation, notation and units.
NA-MD-021	P1-W40-KP4	40	4	P1 year-end mastery and P2 readiness	NA-MD	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use multiplication and division concepts	Demonstrate “Use multiplication and division concepts” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-009	P1-W40-KP5	40	4	P1 year-end mastery and P2 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Communicate and check a complete solution	Demonstrate “Communicate and check a complete solution” by identifying or preventing an error and showing a valid check.

Primary 1 Mathematics - Spiral Progression Map

Important concepts recur at increasing depth; repetition means retrieval plus a new representation, strategy or application demand.

Spiral Family	P1 Entry Point	Development / Revisit Weeks	End-of-P1 Expectation	MOE Role	P2 Bridge	Atomic KP Count	Status
NA-WN	W1: Numbers to 10: counting and quantity	W2, W3, W7, W10, W11, W12, W16, W20, W21, W22, W23, W30, W40	Read, represent, compare and order numbers to 100; use tens and ones flexibly.	Core	Numbers to 1000 and place value	39	Complete
NA-AS	W4: Addition concepts within 10	W5, W6, W10, W13, W14, W15, W16, W24, W25, W26, W27, W28, W40	Add and subtract within 100 using efficient concrete, pictorial and symbolic strategies.	Core	Addition and subtraction within 1000	42	Complete
NA-MD	W31: Multiplication as equal groups	W32, W33, W34, W35, W39, W40	Interpret multiplication and division through equal groups, sharing and grouping.	Core / readiness bridge	Formal tables and multiplication/division facts	21	Complete
NA-FR	W38: Equal sharing and spatial reasoning foundations	Embedded retrieval	Recognise and make halves and quarters of a whole or set using equal parts.	Readiness Bridge / Advanced	Unit fractions and equivalent simple fractions	4	Complete
NA-ALG	W9: Patterns and early algebraic thinking	Embedded retrieval	Continue, create and explain simple repeating or number patterns.	Process bridge	Number patterns and unknowns	4	Complete
MG-MEAS	W29: Length	W30, W36, W37, W40	Use money, length and time accurately in familiar one- and two-step contexts.	Core	Mass, capacity, time and broader unit work	14	Complete
MG-GEO	W8: 2D shapes: identification, composition and grids	Embedded retrieval	Identify, compose, decompose and copy the specified P1 2D shapes accurately.	Core + labelled 3D readiness	2D attribute patterns and formal 3D classification	4	Complete
ST-DATA	W18: Picture graphs	W19, W20	Read, complete and interpret picture graphs with one-to-one correspondence.	Core	Picture graphs with scales and data comparison	8	Complete
PS-MODEL	W16: One-step word problems	W17, W20, W39	Use drawings and simple part-whole or comparison models to represent problems.	Mathematical processes	Bar models and multi-step representation	4	Complete
PS-HEUR	W10: Term 1 mastery and reasoning	Embedded retrieval	Attempt scaffolded unfamiliar problems using a suitable simple strategy.	Mathematical processes	Systematic strategies and working backwards	1	Complete
PS-REASON	W1: Numbers to 10: counting and quantity	W3, W10, W16, W17, W19, W20, W26, W27, W30, W39	Explain a method, pattern, comparison or conclusion using age-appropriate language.	Mathematical processes	Longer chains of reasoning	14	Complete

Spiral Family	P1 Entry Point	Development / Revisit Weeks	End-of-P1 Expectation	MOE Role	P2 Bridge	Atomic KP Count	Status
PS-CHECK	W6: Addition and subtraction relationships	W10, W17, W20, W26, W27, W30, W33, W40	Check work using inverse relationships, estimation or error correction.	Mathematical processes	Independent verification and reasonableness	9	Complete
PS-COMM	Embedded across weekly tasks	Embedded retrieval	Use labelled pictures, symbols, statements and units clearly.	Mathematical processes	More formal mathematical communication	0	Embedded only

Primary 1 Mathematics - MOE Coverage Audit

Cross-check of P1 syllabus content and mathematical processes against the 40-week allocation.

MOE Strand / Topic	Expected P1 Scope	Allocated Weeks	Progression Check	Assessment Readiness	Advanced Boundary	Status	Source
Whole Numbers	Numbers to 100; counting, place value, comparison, order and ordinal position	W1-W3, W7, W11-W12, W21-W23, plus review weeks	10 -> 20 -> 100 with repeated representation and comparison	Recognition, representation, comparison and application	Reasoning with multiple representations; no premature upper-primary algorithms	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Addition and Subtraction	Concepts and computation within 100; relationships and simple word problems	W4-W6, W13-W17, W24-W28, plus review weeks	Within 10 -> within 20 -> within 100 -> transfer	Facts, strategies, unknowns, word problems and checking	Efficient strategy choice and error analysis	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Multiplication and Division	Equal groups, repeated addition, sharing and grouping	W31-W35, W38-W40	Concept before symbol; link inverse situations	Concrete/pictorial representation and simple problem solving	Readiness bridge only; no unsupported table memorisation requirement	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Fraction Readiness (Extension)	Equal sharing and halves/quarters as P2 readiness; not treated as a formal P1 MOE content strand	W38-W40	Equal sharing -> naming familiar parts -> visual application	Identify and make familiar equal parts using objects and pictures	Clearly labelled readiness bridge; no formal fraction operations	Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Money	Coins and notes; value, totals and simple change	W37, W39-W40	Recognition -> combination -> transaction problems	Correct notation, totals, comparison and change	Two-step familiar applications only	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Length	Compare and measure using non-standard and standard units	W29-W30, W39-W40	Direct comparison -> unit iteration -> cm/m contexts	Measure, select units and solve simple problems	Reasoning about unit choice; no complex conversion algorithms	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Time	Time to 5 minutes; a.m./p.m.; h and min; durations of one hour and half an hour	W36, W39-W40	Clock reading -> calendar language -> simple duration	Read clocks/calendars and solve familiar time problems	Timeline representation and simple transfer	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Geometry	Rectangles, squares, triangles, circles, semicircles and quarter circles; composition and grid copying	W8, W38-W40	Recognition -> properties -> composition/decomposition	Identify, sort and compose using observable properties	3D shapes are retained only as a labelled readiness extension	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Data Handling	Picture graphs with one-to-one correspondence	W18-W20, W39-W40	Read -> complete -> compare -> conclude	Accurate extraction and data-supported answer	One unfamiliar interpretation question	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Mathematical Processes	Representation, reasoning, communication, connections, applications and checking	Embedded weekly; explicit W10, W20, W30, W39-W40	Guided explanation -> strategy choice -> transfer	Method, working, answer and verification	Age-appropriate non-routine tasks with scaffolding	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf

Sources, Codes and Use Notes

The MOE syllabus defines the required scope; PSLE Checkpoint sequencing and advanced extensions are curriculum-design decisions.

Type	Source / Code	Details	Use in this List	Authority	Notes
Official syllabus	MOE Primary Mathematics Syllabus (P1-P6), updated Oct 2025	https://www.moe.gov.sg/media/files/primary/92bff26db2b4-4535-b868-b8415c744b91.pdf	Primary alignment and level boundaries	Ministry of Education, Singapore	Current official reference used for this version.
Curriculum baseline	Primary Mathematics P1-P6 Master Knowledge Coverage Matrix V3 with V4 refinement audit	Source workbook plus the cross-grade MOE boundary audit	Weekly sequence, corrected level boundaries, spiral structure and advanced labels	PSLE Checkpoint	P1 V4 retains the V3 architecture while applying the verified corrections.
Code	NA-WN / NA-AS / NA-MD / NA-FR / NA-ALG	Whole numbers; addition/subtraction; multiplication/division; fractions; early algebra	Atomic KP family classification	Matrix rule	Content strands.
Code	MG-MEAS / MG-GEO / ST-DATA	Measurement; geometry; statistics/data	Atomic KP family classification	Matrix rule	Content strands.
Code	PS-MODEL / PS-HEUR / PS-REASON / PS-CHECK / PS-COMM	Models; heuristics; reasoning; checking; communication	Mathematical process classification	Matrix rule	Processes are embedded across content.
Use rule	One KP, one assessment target	Each KP should be assessed independently or clearly tagged within a mixed paper.	Assessment design	PSLE Checkpoint	Do not substitute a different skill for the stated KP.
Use rule	Review weeks	Review only taught content, but increase integration, reasoning and transfer.	Assessment design	PSLE Checkpoint	Review is not a source of untaught concepts.