

PSLE Checkpoint Primary 3 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	168
Pure MOE Core Weeks	27
Spiral / Transfer Weeks	7
KP Range per Week	4-5



Curriculum Design Rules

1	MOE foundation	All required P3 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 P3 syllabus scope against the weekly allocation.
Sources & Notes	Records source scope, codes and curriculum interpretation rules.

Primary 3 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	Develop	MOE Core	Numbers to 10 000	1. Count in hundreds and thousands 2. Represent four-digit place value 3. Read and write numerals and number words 4. Compare and order numbers	Retrieve high-value P2 prerequisites	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 10 000 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	2	2	4	Number & Algebra	NA-WN	Develop	MOE Core	Number patterns and estimation	1. Continue sequences with varying steps 2. Find 1 10 100 or 1000 more or less 3. Estimate positions on number lines 4. Use place value to justify comparisons	Retrieve: Numbers to 10 000; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop number patterns and estimation through accurate representations, explanation, strategy choice and one unfamiliar application.
1	3	3	4	Number & Algebra	NA-AS	Develop	MOE Core	Addition to 10 000	1. Use the addition algorithm up to four digits 2. Rename across multiple places 3. Estimate sums 4. Check using subtraction	Retrieve: Number patterns and estimation; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop addition to 10 000 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	4	4	4	Number & Algebra	NA-AS	Develop	MOE Core	Subtraction to 10 000	1. Use the subtraction algorithm up to four digits 2. Rename across multiple places 3. Estimate differences 4. Check using addition	Retrieve: Addition to 10 000; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop subtraction to 10 000 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	5	5	4	Number & Algebra	NA-AS	Develop	MOE Core	Mental calculation	1. Add two 2-digit numbers mentally 2. Subtract two 2-digit numbers mentally 3. Use compensation bridging and partitioning 4. Explain strategy efficiency	Retrieve: Subtraction to 10 000; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop mental calculation through accurate representations, explanation, strategy choice and one unfamiliar application.
1	6	6	4	Number & Algebra	NA-MD	Develop	MOE Core	Tables of 6 7 8 and 9	1. Recall multiplication facts for 6 7 8 and 9 2. Apply corresponding division facts 3. Use known facts to derive unknown facts 4. Identify patterns across tables	Retrieve: Mental calculation; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop tables of 6 7 8 and 9 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	7	7	4	Number & Algebra	NA-MD	Develop	MOE Core	Multiplication algorithms	1. Multiply up to three digits by one digit 2. Estimate products 3. Interpret place-value partial products 4. Check using division or approximation	Retrieve: Tables of 6 7 8 and 9; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop multiplication algorithms through accurate representations, explanation, strategy choice and one unfamiliar application.
1	8	8	4	Number & Algebra	NA-MD	Develop	MOE Core	Division algorithms and remainder	1. Divide up to three digits by one digit 2. Interpret quotient and remainder 3. Estimate quotients 4. Check using multiplication plus remainder	Retrieve: Multiplication algorithms; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop division algorithms and remainder through accurate representations, explanation, strategy choice and one unfamiliar application.
1	9	9	4	Measurement & Geometry	MG-MEAS	Develop	MOE Core	Money operations	1. Add and subtract money in decimal notation 2. Find change from larger amounts 3. Compare purchase options 4. Solve two-step money problems	Retrieve: Division algorithms and remainder; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop money operations 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 transfer	1. Retrieve four operations and tables 2. Solve two-step whole-number problems 3. Apply money accurately 4. Explain estimation and checking 5. Solve one non-routine number challenge	Retrieve: Money operations; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop term 1 mastery and transfer through accurate representations, explanation, strategy choice and one unfamiliar application.
2	1	11	4	Problem Solving & Mathematical Processes	NA-AS	Develop	MOE Core	Word problems: addition and subtraction	1. Solve up to two-step additive problems 2. Use part-whole and comparison bar models 3. Handle an unknown start or change 4. Identify redundant information	Retrieve: Term 1 mastery and transfer; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop word problems: addition and subtraction 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	Problem Solving & Mathematical Processes	NA-MD	Develop	MOE Core	Word problems: multiplication and division	1. Solve equal-group and comparison problems 2. Use unitary reasoning in simple contexts 3. Interpret remainders appropriately 4. Write equations from bar models	Retrieve: Word problems: addition and subtraction; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop word problems: multiplication and division through accurate representations, explanation, strategy choice and one unfamiliar application.
2	3	13	4	Problem Solving & Mathematical Processes	NA-AS	Develop	MOE Core	Four-operation problem solving	1. Select operations in mixed contexts 2. Solve two-step and two-part problems 3. Use before-after and comparison models 4. Check intermediate and final answers	Retrieve: Word problems: multiplication and division; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop four-operation problem solving through accurate representations, explanation, strategy choice and one unfamiliar application.
2	4	14	4	Statistics	ST-DATA	Develop	MOE Core	Bar graphs	1. Read vertical and horizontal bar graphs 2. Interpret scales accurately 3. Find totals differences and combined categories 4. Complete a graph from data	Retrieve: Four-operation problem solving; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop bar graphs through accurate representations, explanation, strategy choice and one unfamiliar application.
2	5	15	4	Statistics	ST-DATA	Develop	MOE Core	Data interpretation and claims	1. Answer multi-step questions from bar graphs 2. Compare data across categories 3. Identify statements supported by data 4. Explain one conclusion with evidence	Retrieve: Bar graphs; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop data interpretation and claims through accurate representations, explanation, strategy choice and one unfamiliar application.
2	6	16	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Angles	1. Recognise angles as turns 2. Compare angles with a right angle 3. Identify right angles 4. Estimate and classify simple angles informally	Retrieve: Data interpretation and claims; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop angles through accurate representations, explanation, strategy choice and one unfamiliar application.
2	7	17	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Perpendicular and parallel lines	1. Identify perpendicular lines 2. Identify parallel lines 3. Relate lines to rectangles and squares 4. Draw and label examples on grids	Retrieve: Angles; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop perpendicular and parallel lines through accurate representations, explanation, strategy choice and one unfamiliar application.
2	8	18	4	Number & Algebra	NA-FR	Develop	MOE Core	Equivalent fractions	1. Generate equivalent fractions using models 2. Simplify fractions 3. Find a missing numerator or denominator 4. Explain equivalence multiplicatively	Retrieve: Perpendicular and parallel lines; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop equivalent fractions through accurate representations, explanation, strategy choice and one unfamiliar application.
2	9	19	4	Number & Algebra	NA-FR	Develop	MOE Core	Comparing unlike fractions	1. Compare unlike fractions with denominators up to 12 2. Use equivalent fractions or benchmarks 3. Order unlike fractions 4. Justify comparisons visually and symbolically	Retrieve: Equivalent fractions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop comparing unlike fractions 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 reasoning	1. Retrieve four operations and fractions 2. Interpret bar graphs 3. Apply angle and line knowledge 4. Solve mixed two-step problems 5. Compare two solution methods	Retrieve: Comparing unlike fractions; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop term 2 mastery and reasoning through accurate representations, explanation, strategy choice and one unfamiliar application.
3	1	21	4	Number & Algebra	NA-FR	Develop / Apply	MOE Core	Adding and subtracting related fractions	1. Add related fractions within one whole 2. Subtract related fractions within one whole 3. Rename using equivalent fractions 4. Solve fraction word problems	Retrieve: Term 2 mastery and reasoning; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop adding and subtracting related fractions through accurate representations, explanation, strategy choice and one unfamiliar application.
3	2	22	4	Number & Algebra	NA-FR	Extend	Advanced Bridge / Extension	Fraction of a set (P4 readiness)	1. Find a unit fraction of a small set using models 2. Find a non-unit fraction of a small set using models 3. Use division then multiplication in guided cases 4. Solve a scaffolded fraction-of-set problem	Retrieve: Adding and subtracting related fractions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop fraction of a set extension through accurate representations, explanation, strategy choice and one unfamiliar application.
3	3	23	5	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Length measurement and conversion	1. Convert between kilometres and metres 2. Convert between metres and centimetres 3. Measure and compare lengths 4. Read measurement scales accurately 5. Solve two-step length problems using a common unit	Retrieve: Fraction of a set extension; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop length measurement and conversion through accurate representations, explanation, strategy choice and one unfamiliar application.

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3	4	24	5	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Mass measurement and conversion	1. Measure mass in kilograms and grams 2. Convert between kilograms and grams 3. Read mass scales accurately 4. Compare and combine masses using a common unit 5. Solve mass word problems	Retrieve: Length measurement and conversion; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop mass measurement and conversion through accurate representations, explanation, strategy choice and one unfamiliar application.
3	5	25	5	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Liquid volume and capacity conversion	1. Measure liquid volume in litres and millilitres 2. Convert between litres and millilitres 3. Read liquid-volume scales accurately 4. Compare and combine liquid volumes using a common unit 5. Solve liquid-volume problems	Retrieve: Mass measurement and conversion; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop capacity measurement and conversion through accurate representations, explanation, strategy choice and one unfamiliar application.
3	6	26	4	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Area and perimeter concepts	1. Distinguish area from perimeter 2. Find area by counting square units 3. Find perimeter by adding side lengths 4. Solve missing-side problems on grids	Retrieve: Capacity measurement and conversion; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop area and perimeter concepts through accurate representations, explanation, strategy choice and one unfamiliar application.
3	7	27	4	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core + Advanced Bridge	Area and perimeter of rectangles and squares	1. Use formulas for rectangle and square area 2. Use formulas for perimeter 3. Find a missing dimension 4. Solve composite grid problems as extension	Retrieve: Area and perimeter concepts; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop area and perimeter of rectangles and squares through accurate representations, explanation, strategy choice and one unfamiliar application.
3	8	28	5	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Time, seconds and duration	1. Measure time in seconds 2. Convert hours and minutes to minutes and vice versa 3. Find starting time finishing time or duration 4. Read and write 24-hour time in familiar contexts 5. Interpret timetables and solve time problems	Retrieve: Area and perimeter of rectangles and squares; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop time to the minute and duration through accurate representations, explanation, strategy choice and one unfamiliar application.
3	9	29	4	Problem Solving & Mathematical Processes	MG-MEAS	Develop / Apply	MOE Core	Measurement problem solving	1. Choose correct units and operations 2. Solve two-step length mass volume or time problems 3. Draw a bar model or timeline 4. Check unit consistency	Retrieve: Time to the minute and duration; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop measurement problem solving 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 application	1. Integrate fractions and measurement 2. Solve an area-perimeter challenge 3. Interpret a timetable 4. Explain a unit-conversion strategy 5. Complete a mixed non-routine task	Retrieve: Measurement problem solving; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop term 3 mastery and application through accurate representations, explanation, strategy choice and one unfamiliar application.
4	1	31	4	Number & Algebra	PS-REASON	Extend	Advanced Bridge / Extension	Advanced number sense	1. Form numbers under digit constraints 2. Round informally for estimation 3. Find bounds for a reasonable answer 4. Detect impossible numerical claims	Retrieve: Term 3 mastery and application; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop advanced number sense through accurate representations, explanation, strategy choice and one unfamiliar application.
4	2	32	4	Number & Algebra	PS-REASON	Extend	Advanced Bridge / Extension	Advanced operation reasoning	1. Use order implied by a multi-step context 2. Find missing digits in algorithms 3. Use inverse operations in equations 4. Generalise a calculation pattern	Retrieve: Advanced number sense; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop advanced operation reasoning through accurate representations, explanation, strategy choice and one unfamiliar application.
4	3	33	4	Number & Algebra	NA-FR	Extend	Advanced Bridge / Extension	Advanced fraction reasoning	1. Use 0 one-half and 1 as benchmarks 2. Compare fractions with close values 3. Find multiple equivalent forms 4. Explain a common fraction misconception	Retrieve: Advanced operation reasoning; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop advanced fraction reasoning through accurate representations, explanation, strategy choice and one unfamiliar application.
4	4	34	4	Measurement & Geometry	MG-GEO	Consolidate	Advanced Bridge / Extension	Geometry and spatial reasoning	1. Identify symmetry in familiar shapes 2. Visualise simple turns and positions 3. Compose shapes to meet constraints 4. Reason from incomplete diagrams	Retrieve: Advanced fraction reasoning; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop geometry and spatial reasoning through accurate representations, explanation, strategy choice and one unfamiliar application.
4	5	35	4	Statistics	ST-DATA	Consolidate	MOE Core	Data investigation	1. Collect and categorise data 2. Select a suitable bar-graph scale 3. Construct an accurate bar graph 4. Write an evidence-based conclusion	Retrieve: Geometry and spatial reasoning; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop data investigation through accurate representations, explanation, strategy choice and one unfamiliar application.

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4	6	36	4	Problem Solving & Mathematical Processes	PS-MODEL	Master / Transfer	Spiral Maintenance / Transfer	Model method mastery	1. Choose part-whole comparison or equal-group models 2. Represent two-step relationships 3. Label bars and units precisely 4. Translate a model into equations	Retrieve: Data investigation; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop model method mastery through accurate representations, explanation, strategy choice and one unfamiliar application.
4	7	37	4	Problem Solving & Mathematical Processes	PS-HEUR	Consolidate	MOE Core	Heuristics introduction	1. Make a systematic list 2. Guess check and improve 3. Work backward in a simple problem 4. Look for a pattern	Retrieve: Model method mastery; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop heuristics introduction through accurate representations, explanation, strategy choice and one unfamiliar application.
4	8	38	4	Problem Solving & Mathematical Processes	PS-REASON	Consolidate	Spiral Maintenance / Transfer	Integrated PSLE-style foundations	1. Solve multi-topic short-answer problems 2. Explain reasoning with mathematical language 3. Check through estimation or inverse operations 4. Compare an efficient and inefficient method	Retrieve: Heuristics introduction; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop integrated psle-style foundations through accurate representations, explanation, strategy choice and one unfamiliar application.
4	9	39	4	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	P3 cumulative mastery	1. Retrieve all P3 number and geometry knowledge 2. Apply all measurement and statistics skills 3. Solve mixed two-step word problems 4. Correct representative misconceptions	Retrieve: Integrated PSLE-style foundations; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p3 cumulative mastery 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	P3 year-end mastery and P4 readiness	1. Master whole numbers to 10 000 and four operations 2. Master core fraction relationships 3. Apply graphs angles lines area perimeter and measures 4. Use models heuristics and checking 5. Transfer learning to unfamiliar contexts	Retrieve: P3 cumulative mastery; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p3 year-end mastery and p4 readiness through accurate representations, explanation, strategy choice and one unfamiliar application.

Primary 3 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	P3-W01-KP1	1	1	Numbers to 10 000	NA-WN	Number & Algebra	Develop	MOE Core	Count in hundreds and thousands	Demonstrate “Count in hundreds and thousands” accurately in one direct item and one age-appropriate contextual application.
NA-WN-002	P3-W01-KP2	1	1	Numbers to 10 000	NA-WN	Number & Algebra	Develop	MOE Core	Represent four-digit place value	Demonstrate “Represent four-digit place value” accurately in one direct item and one age-appropriate contextual application.
NA-WN-003	P3-W01-KP3	1	1	Numbers to 10 000	NA-WN	Number & Algebra	Develop	MOE Core	Read and write numerals and number words	Demonstrate “Read and write numerals and number words” accurately in one direct item and one age-appropriate contextual application.
NA-WN-004	P3-W01-KP4	1	1	Numbers to 10 000	NA-WN	Number & Algebra	Develop	MOE Core	Compare and order numbers	Demonstrate “Compare and order numbers” accurately in one direct item and one age-appropriate contextual application.
NA-WN-005	P3-W02-KP1	2	1	Number patterns and estimation	NA-WN	Number & Algebra	Develop	MOE Core	Continue sequences with varying steps	Demonstrate “Continue sequences with varying steps” accurately in one direct item and one age-appropriate contextual application.
NA-WN-006	P3-W02-KP2	2	1	Number patterns and estimation	NA-WN	Number & Algebra	Develop	MOE Core	Find 1 10 100 or 1000 more or less	Demonstrate “Find 1 10 100 or 1000 more or less” accurately in one direct item and one age-appropriate contextual application.
NA-WN-007	P3-W02-KP3	2	1	Number patterns and estimation	NA-WN	Number & Algebra	Develop	MOE Core	Estimate positions on number lines	Demonstrate “Estimate positions on number lines” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-001	P3-W02-KP4	2	1	Number patterns and estimation	PS-REASON	Number & Algebra	Develop	MOE Core	Use place value to justify comparisons	Demonstrate “Use place value to justify comparisons” by giving a correct conclusion and a mathematically valid reason.
NA-AS-001	P3-W03-KP1	3	1	Addition to 10 000	NA-AS	Number & Algebra	Develop	MOE Core	Use the addition algorithm up to four digits	Demonstrate “Use the addition algorithm up to four digits” accurately in one direct item and one age-appropriate contextual application.
NA-AS-002	P3-W03-KP2	3	1	Addition to 10 000	NA-AS	Number & Algebra	Develop	MOE Core	Rename across multiple places	Demonstrate “Rename across multiple places” accurately in one direct item and one age-appropriate contextual application.
NA-AS-003	P3-W03-KP3	3	1	Addition to 10 000	NA-AS	Number & Algebra	Develop	MOE Core	Estimate sums	Demonstrate “Estimate sums” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-001	P3-W03-KP4	3	1	Addition to 10 000	PS-CHECK	Number & Algebra	Develop	MOE Core	Check using subtraction	Demonstrate “Check using subtraction” by identifying or preventing an error and showing a valid check.
NA-AS-004	P3-W04-KP1	4	1	Subtraction to 10 000	NA-AS	Number & Algebra	Develop	MOE Core	Use the subtraction algorithm up to four digits	Demonstrate “Use the subtraction algorithm up to four digits” accurately in one direct item and one age-appropriate contextual application.
NA-AS-005	P3-W04-KP2	4	1	Subtraction to 10 000	NA-AS	Number & Algebra	Develop	MOE Core	Rename across multiple places	Demonstrate “Rename across multiple places” accurately in one direct item and one age-appropriate contextual application.
NA-AS-006	P3-W04-KP3	4	1	Subtraction to 10 000	NA-AS	Number & Algebra	Develop	MOE Core	Estimate differences	Demonstrate “Estimate differences” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-002	P3-W04-KP4	4	1	Subtraction to 10 000	PS-CHECK	Number & Algebra	Develop	MOE Core	Check using addition	Demonstrate “Check using addition” by identifying or preventing an error and showing a valid check.
NA-AS-007	P3-W05-KP1	5	1	Mental calculation	NA-AS	Number & Algebra	Develop	MOE Core	Add two 2-digit numbers mentally	Demonstrate “Add two 2-digit numbers mentally” accurately in one direct item and one age-appropriate contextual application.
NA-AS-008	P3-W05-KP2	5	1	Mental calculation	NA-AS	Number & Algebra	Develop	MOE Core	Subtract two 2-digit numbers mentally	Demonstrate “Subtract two 2-digit numbers mentally” accurately in one direct item and one age-appropriate contextual application.
NA-AS-009	P3-W05-KP3	5	1	Mental calculation	NA-AS	Number & Algebra	Develop	MOE Core	Use compensation bridging and partitioning	Demonstrate “Use compensation bridging and partitioning” accurately in one direct item and one age-appropriate contextual application.

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PS-REASON-002	P3-W05-KP4	5	1	Mental calculation	PS-REASON	Number & Algebra	Develop	MOE Core	Explain strategy efficiency	Demonstrate “Explain strategy efficiency” by giving a correct conclusion and a mathematically valid reason.
NA-MD-001	P3-W06-KP1	6	1	Tables of 6 7 8 and 9	NA-MD	Number & Algebra	Develop	MOE Core	Recall multiplication facts for 6 7 8 and 9	Demonstrate “Recall multiplication facts for 6 7 8 and 9” accurately in one direct item and one age-appropriate contextual application.
NA-MD-002	P3-W06-KP2	6	1	Tables of 6 7 8 and 9	NA-MD	Number & Algebra	Develop	MOE Core	Apply corresponding division facts	Demonstrate “Apply corresponding division facts” accurately in one direct item and one age-appropriate contextual application.
NA-MD-003	P3-W06-KP3	6	1	Tables of 6 7 8 and 9	NA-MD	Number & Algebra	Develop	MOE Core	Use known facts to derive unknown facts	Demonstrate “Use known facts to derive unknown facts” accurately in one direct item and one age-appropriate contextual application.
NA-MD-004	P3-W06-KP4	6	1	Tables of 6 7 8 and 9	NA-MD	Number & Algebra	Develop	MOE Core	Identify patterns across tables	Demonstrate “Identify patterns across tables” accurately in one direct item and one age-appropriate contextual application.
NA-MD-005	P3-W07-KP1	7	1	Multiplication algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Multiply up to three digits by one digit	Demonstrate “Multiply up to three digits by one digit” accurately in one direct item and one age-appropriate contextual application.
NA-MD-006	P3-W07-KP2	7	1	Multiplication algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Estimate products	Demonstrate “Estimate products” accurately in one direct item and one age-appropriate contextual application.
NA-MD-007	P3-W07-KP3	7	1	Multiplication algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Interpret place-value partial products	Demonstrate “Interpret place-value partial products” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-003	P3-W07-KP4	7	1	Multiplication algorithms	PS-CHECK	Number & Algebra	Develop	MOE Core	Check using division or approximation	Demonstrate “Check using division or approximation” by identifying or preventing an error and showing a valid check.
NA-MD-008	P3-W08-KP1	8	1	Division algorithms and remainder	NA-MD	Number & Algebra	Develop	MOE Core	Divide up to three digits by one digit	Demonstrate “Divide up to three digits by one digit” accurately in one direct item and one age-appropriate contextual application.
NA-MD-009	P3-W08-KP2	8	1	Division algorithms and remainder	NA-MD	Number & Algebra	Develop	MOE Core	Interpret quotient and remainder	Demonstrate “Interpret quotient and remainder” accurately in one direct item and one age-appropriate contextual application.
NA-MD-010	P3-W08-KP3	8	1	Division algorithms and remainder	NA-MD	Number & Algebra	Develop	MOE Core	Estimate quotients	Demonstrate “Estimate quotients” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-004	P3-W08-KP4	8	1	Division algorithms and remainder	PS-CHECK	Number & Algebra	Develop	MOE Core	Check using multiplication plus remainder	Demonstrate “Check using multiplication plus remainder” by identifying or preventing an error and showing a valid check.
MG-MEAS-001	P3-W09-KP1	9	1	Money operations	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Add and subtract money in decimal notation	Demonstrate “Add and subtract money in decimal notation” with correct measurement, calculation, notation and units.
MG-MEAS-002	P3-W09-KP2	9	1	Money operations	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Find change from larger amounts	Demonstrate “Find change from larger amounts” with correct measurement, calculation, notation and units.
MG-MEAS-003	P3-W09-KP3	9	1	Money operations	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Compare purchase options	Demonstrate “Compare purchase options” with correct measurement, calculation, notation and units.
MG-MEAS-004	P3-W09-KP4	9	1	Money operations	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Solve two-step money problems	Demonstrate “Solve two-step money problems” with correct measurement, calculation, notation and units.
PS-REASON-003	P3-W10-KP1	10	1	Term 1 mastery and transfer	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve four operations and tables	Demonstrate “Retrieve four operations and tables” by giving a correct conclusion and a mathematically valid reason.
NA-WN-008	P3-W10-KP2	10	1	Term 1 mastery and transfer	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve two-step whole-number problems	Demonstrate “Solve two-step whole-number problems” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-005	P3-W10-KP3	10	1	Term 1 mastery and transfer	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply money accurately	Demonstrate “Apply money accurately” with correct measurement, calculation, notation and units.
PS-CHECK-005	P3-W10-KP4	10	1	Term 1 mastery and transfer	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Explain estimation and checking	Demonstrate “Explain estimation and checking” by identifying or preventing an error and showing a valid check.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
PS-HEUR-001	P3-W10-KP5	10	1	Term 1 mastery and transfer	PS-HEUR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve one non-routine number challenge	Demonstrate “Solve one non-routine number challenge” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-AS-010	P3-W11-KP1	11	2	Word problems: addition and subtraction	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Solve up to two-step additive problems	Demonstrate “Solve up to two-step additive problems” accurately in one direct item and one age-appropriate contextual application.
PS-MODEL-001	P3-W11-KP2	11	2	Word problems: addition and subtraction	PS-MODEL	Problem Solving & Mathematical Processes	Develop	MOE Core	Use part-whole and comparison bar models	Demonstrate “Use part-whole and comparison bar models” using an accurate labelled model that leads to the answer.
NA-AS-011	P3-W11-KP3	11	2	Word problems: addition and subtraction	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Handle an unknown start or change	Demonstrate “Handle an unknown start or change” accurately in one direct item and one age-appropriate contextual application.
NA-AS-012	P3-W11-KP4	11	2	Word problems: addition and subtraction	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Identify redundant information	Demonstrate “Identify redundant information” accurately in one direct item and one age-appropriate contextual application.
NA-MD-011	P3-W12-KP1	12	2	Word problems: multiplication and division	NA-MD	Problem Solving & Mathematical Processes	Develop	MOE Core	Solve equal-group and comparison problems	Demonstrate “Solve equal-group and comparison problems” accurately in one direct item and one age-appropriate contextual application.
NA-MD-012	P3-W12-KP2	12	2	Word problems: multiplication and division	NA-MD	Problem Solving & Mathematical Processes	Develop	MOE Core	Use unitary reasoning in simple contexts	Demonstrate “Use unitary reasoning in simple contexts” accurately in one direct item and one age-appropriate contextual application.
NA-MD-013	P3-W12-KP3	12	2	Word problems: multiplication and division	NA-MD	Problem Solving & Mathematical Processes	Develop	MOE Core	Interpret remainders appropriately	Demonstrate “Interpret remainders appropriately” accurately in one direct item and one age-appropriate contextual application.
PS-MODEL-002	P3-W12-KP4	12	2	Word problems: multiplication and division	PS-MODEL	Problem Solving & Mathematical Processes	Develop	MOE Core	Write equations from bar models	Demonstrate “Write equations from bar models” using an accurate labelled model that leads to the answer.
NA-AS-013	P3-W13-KP1	13	2	Four-operation problem solving	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Select operations in mixed contexts	Demonstrate “Select operations in mixed contexts” accurately in one direct item and one age-appropriate contextual application.
NA-AS-014	P3-W13-KP2	13	2	Four-operation problem solving	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Solve two-step and two-part problems	Demonstrate “Solve two-step and two-part problems” accurately in one direct item and one age-appropriate contextual application.
NA-AS-015	P3-W13-KP3	13	2	Four-operation problem solving	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Use before-after and comparison models	Demonstrate “Use before-after and comparison models” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-006	P3-W13-KP4	13	2	Four-operation problem solving	PS-CHECK	Problem Solving & Mathematical Processes	Develop	MOE Core	Check intermediate and final answers	Demonstrate “Check intermediate and final answers” by identifying or preventing an error and showing a valid check.
ST-DATA-001	P3-W14-KP1	14	2	Bar graphs	ST-DATA	Statistics	Develop	MOE Core	Read vertical and horizontal bar graphs	Demonstrate “Read vertical and horizontal bar graphs” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-002	P3-W14-KP2	14	2	Bar graphs	ST-DATA	Statistics	Develop	MOE Core	Interpret scales accurately	Demonstrate “Interpret scales accurately” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-003	P3-W14-KP3	14	2	Bar graphs	ST-DATA	Statistics	Develop	MOE Core	Find totals differences and combined categories	Demonstrate “Find totals differences and combined categories” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-004	P3-W14-KP4	14	2	Bar graphs	ST-DATA	Statistics	Develop	MOE Core	Complete a graph from data	Demonstrate “Complete a graph from data” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-005	P3-W15-KP1	15	2	Data interpretation and claims	ST-DATA	Statistics	Develop	MOE Core	Answer multi-step questions from bar graphs	Demonstrate “Answer multi-step questions from bar graphs” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-006	P3-W15-KP2	15	2	Data interpretation and claims	ST-DATA	Statistics	Develop	MOE Core	Compare data across categories	Demonstrate “Compare data across categories” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-007	P3-W15-KP3	15	2	Data interpretation and claims	ST-DATA	Statistics	Develop	MOE Core	Identify statements supported by data	Demonstrate “Identify statements supported by data” by extracting or organising data accurately and supporting the answer with evidence.
PS-REASON-004	P3-W15-KP4	15	2	Data interpretation and claims	PS-REASON	Statistics	Develop	MOE Core	Explain one conclusion with evidence	Demonstrate “Explain one conclusion with evidence” by giving a correct conclusion and a mathematically valid reason.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
MG-GEO-001	P3-W16-KP1	16	2	Angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Recognise angles as turns	Demonstrate “Recognise angles as turns” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-002	P3-W16-KP2	16	2	Angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Compare angles with a right angle	Demonstrate “Compare angles with a right angle” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-003	P3-W16-KP3	16	2	Angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Identify right angles	Demonstrate “Identify right angles” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-004	P3-W16-KP4	16	2	Angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Estimate and classify simple angles informally	Demonstrate “Estimate and classify simple angles informally” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-005	P3-W17-KP1	17	2	Perpendicular and parallel lines	MG-GEO	Measurement & Geometry	Develop	MOE Core	Identify perpendicular lines	Demonstrate “Identify perpendicular lines” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-006	P3-W17-KP2	17	2	Perpendicular and parallel lines	MG-GEO	Measurement & Geometry	Develop	MOE Core	Identify parallel lines	Demonstrate “Identify parallel lines” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-007	P3-W17-KP3	17	2	Perpendicular and parallel lines	MG-GEO	Measurement & Geometry	Develop	MOE Core	Relate lines to rectangles and squares	Demonstrate “Relate lines to rectangles and squares” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-008	P3-W17-KP4	17	2	Perpendicular and parallel lines	MG-GEO	Measurement & Geometry	Develop	MOE Core	Draw and label examples on grids	Demonstrate “Draw and label examples on grids” using an accurate diagram, stated property or geometric construction as appropriate.
NA-FR-001	P3-W18-KP1	18	2	Equivalent fractions	NA-FR	Number & Algebra	Develop	MOE Core	Generate equivalent fractions using models	Demonstrate “Generate equivalent fractions using models” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-002	P3-W18-KP2	18	2	Equivalent fractions	NA-FR	Number & Algebra	Develop	MOE Core	Simplify fractions	Demonstrate “Simplify fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-003	P3-W18-KP3	18	2	Equivalent fractions	NA-FR	Number & Algebra	Develop	MOE Core	Find a missing numerator or denominator	Demonstrate “Find a missing numerator or denominator” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-REASON-005	P3-W18-KP4	18	2	Equivalent fractions	PS-REASON	Number & Algebra	Develop	MOE Core	Explain equivalence multiplicatively	Demonstrate “Explain equivalence multiplicatively” by giving a correct conclusion and a mathematically valid reason.
NA-FR-004	P3-W19-KP1	19	2	Comparing unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Compare unlike fractions with denominators up to 12	Demonstrate “Compare unlike fractions with denominators up to 12” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-005	P3-W19-KP2	19	2	Comparing unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Use equivalent fractions or benchmarks	Demonstrate “Use equivalent fractions or benchmarks” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-006	P3-W19-KP3	19	2	Comparing unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Order unlike fractions	Demonstrate “Order unlike fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-REASON-006	P3-W19-KP4	19	2	Comparing unlike fractions	PS-REASON	Number & Algebra	Develop	MOE Core	Justify comparisons visually and symbolically	Demonstrate “Justify comparisons visually and symbolically” by giving a correct conclusion and a mathematically valid reason.
NA-FR-007	P3-W20-KP1	20	2	Term 2 mastery and reasoning	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve four operations and fractions	Demonstrate “Retrieve four operations and fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
ST-DATA-008	P3-W20-KP2	20	2	Term 2 mastery and reasoning	ST-DATA	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret bar graphs	Demonstrate “Interpret bar graphs” by extracting or organising data accurately and supporting the answer with evidence.
MG-GEO-009	P3-W20-KP3	20	2	Term 2 mastery and reasoning	MG-GEO	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply angle and line knowledge	Demonstrate “Apply angle and line knowledge” using an accurate diagram, stated property or geometric construction as appropriate.
PS-REASON-007	P3-W20-KP4	20	2	Term 2 mastery and reasoning	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve mixed two-step problems	Demonstrate “Solve mixed two-step problems” by giving a correct conclusion and a mathematically valid reason.
NA-WN-009	P3-W20-KP5	20	2	Term 2 mastery and reasoning	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Compare two solution methods	Demonstrate “Compare two solution methods” accurately in one direct item and one age-appropriate contextual application.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
NA-FR-008	P3-W21-KP1	21	3	Adding and subtracting related fractions	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Add related fractions within one whole	Demonstrate “Add related fractions within one whole” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-009	P3-W21-KP2	21	3	Adding and subtracting related fractions	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Subtract related fractions within one whole	Demonstrate “Subtract related fractions within one whole” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-010	P3-W21-KP3	21	3	Adding and subtracting related fractions	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Rename using equivalent fractions	Demonstrate “Rename using equivalent fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-011	P3-W21-KP4	21	3	Adding and subtracting related fractions	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Solve fraction word problems	Demonstrate “Solve fraction word problems” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-012	P3-W22-KP1	22	3	Fraction of a set (P4 readiness)	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Find a unit fraction of a small set using models	Demonstrate “Find a unit fraction of a small set using models” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-013	P3-W22-KP2	22	3	Fraction of a set (P4 readiness)	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Find a non-unit fraction of a small set using models	Demonstrate “Find a non-unit fraction of a small set using models” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-014	P3-W22-KP3	22	3	Fraction of a set (P4 readiness)	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Use division then multiplication in guided cases	Demonstrate “Use division then multiplication in guided cases” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-015	P3-W22-KP4	22	3	Fraction of a set (P4 readiness)	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Solve a scaffolded fraction-of-set problem	Demonstrate “Solve a scaffolded fraction-of-set problem” with an appropriate fraction model or calculation and a simplified final answer where required.
MG-MEAS-006	P3-W23-KP1	23	3	Length measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Convert between kilometres and metres	Demonstrate “Convert between kilometres and metres” with correct measurement, calculation, notation and units.
MG-MEAS-007	P3-W23-KP2	23	3	Length measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Convert between metres and centimetres	Demonstrate “Convert between metres and centimetres” with correct measurement, calculation, notation and units.
MG-MEAS-008	P3-W23-KP3	23	3	Length measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Measure and compare lengths	Demonstrate “Measure and compare lengths” with correct measurement, calculation, notation and units.
MG-MEAS-009	P3-W23-KP4	23	3	Length measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Read measurement scales accurately	Demonstrate “Read measurement scales accurately” with correct measurement, calculation, notation and units.
MG-MEAS-010	P3-W23-KP5	23	3	Length measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Solve two-step length problems using a common unit	Demonstrate “Solve two-step length problems using a common unit” with correct measurement, calculation, notation and units.
MG-MEAS-011	P3-W24-KP1	24	3	Mass measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Measure mass in kilograms and grams	Demonstrate “Measure mass in kilograms and grams” with correct measurement, calculation, notation and units.
MG-MEAS-012	P3-W24-KP2	24	3	Mass measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Convert between kilograms and grams	Demonstrate “Convert between kilograms and grams” with correct measurement, calculation, notation and units.
MG-MEAS-013	P3-W24-KP3	24	3	Mass measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Read mass scales accurately	Demonstrate “Read mass scales accurately” with correct measurement, calculation, notation and units.
MG-MEAS-014	P3-W24-KP4	24	3	Mass measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Compare and combine masses using a common unit	Demonstrate “Compare and combine masses using a common unit” with correct measurement, calculation, notation and units.
MG-MEAS-015	P3-W24-KP5	24	3	Mass measurement and conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Solve mass word problems	Demonstrate “Solve mass word problems” with correct measurement, calculation, notation and units.
MG-MEAS-016	P3-W25-KP1	25	3	Liquid volume and capacity conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Measure liquid volume in litres and millilitres	Demonstrate “Measure liquid volume in litres and millilitres” with correct measurement, calculation, notation and units.
MG-MEAS-017	P3-W25-KP2	25	3	Liquid volume and capacity conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Convert between litres and millilitres	Demonstrate “Convert between litres and millilitres” with correct measurement, calculation, notation and units.
MG-MEAS-018	P3-W25-KP3	25	3	Liquid volume and capacity conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Read liquid-volume scales accurately	Demonstrate “Read liquid-volume scales accurately” with correct measurement, calculation, notation and units.

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MG-MEAS-019	P3-W25-KP4	25	3	Liquid volume and capacity conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Compare and combine liquid volumes using a common unit	Demonstrate “Compare and combine liquid volumes using a common unit” with correct measurement, calculation, notation and units.
MG-MEAS-020	P3-W25-KP5	25	3	Liquid volume and capacity conversion	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Solve liquid-volume problems	Demonstrate “Solve liquid-volume problems” with correct measurement, calculation, notation and units.
MG-MEAS-021	P3-W26-KP1	26	3	Area and perimeter concepts	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Distinguish area from perimeter	Demonstrate “Distinguish area from perimeter” with correct measurement, calculation, notation and units.
MG-MEAS-022	P3-W26-KP2	26	3	Area and perimeter concepts	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find area by counting square units	Demonstrate “Find area by counting square units” with correct measurement, calculation, notation and units.
MG-MEAS-023	P3-W26-KP3	26	3	Area and perimeter concepts	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find perimeter by adding side lengths	Demonstrate “Find perimeter by adding side lengths” with correct measurement, calculation, notation and units.
MG-MEAS-024	P3-W26-KP4	26	3	Area and perimeter concepts	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Solve missing-side problems on grids	Demonstrate “Solve missing-side problems on grids” with correct measurement, calculation, notation and units.
MG-MEAS-025	P3-W27-KP1	27	3	Area and perimeter of rectangles and squares	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Use formulas for rectangle and square area	Demonstrate “Use formulas for rectangle and square area” with correct measurement, calculation, notation and units.
MG-MEAS-026	P3-W27-KP2	27	3	Area and perimeter of rectangles and squares	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Use formulas for perimeter	Demonstrate “Use formulas for perimeter” with correct measurement, calculation, notation and units.
MG-MEAS-027	P3-W27-KP3	27	3	Area and perimeter of rectangles and squares	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Find a missing dimension	Demonstrate “Find a missing dimension” with correct measurement, calculation, notation and units.
MG-MEAS-028	P3-W27-KP4	27	3	Area and perimeter of rectangles and squares	MG-MEAS	Measurement & Geometry	Develop / Apply	Advanced Bridge / Extension	Solve composite grid problems as extension	Demonstrate “Solve composite grid problems as extension” with correct measurement, calculation, notation and units.
MG-MEAS-029	P3-W28-KP1	28	3	Time, seconds and duration	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Measure time in seconds	Demonstrate “Measure time in seconds” with correct measurement, calculation, notation and units.
MG-MEAS-030	P3-W28-KP2	28	3	Time, seconds and duration	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Convert hours and minutes to minutes and vice versa	Demonstrate “Convert hours and minutes to minutes and vice versa” with correct measurement, calculation, notation and units.
MG-MEAS-031	P3-W28-KP3	28	3	Time, seconds and duration	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find starting time finishing time or duration	Demonstrate “Find starting time finishing time or duration” with correct measurement, calculation, notation and units.
MG-MEAS-032	P3-W28-KP4	28	3	Time, seconds and duration	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Read and write 24-hour time in familiar contexts	Demonstrate “Read and write 24-hour time in familiar contexts” with correct measurement, calculation, notation and units.
MG-MEAS-033	P3-W28-KP5	28	3	Time, seconds and duration	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Interpret timetables and solve time problems	Demonstrate “Interpret timetables and solve time problems” with correct measurement, calculation, notation and units.
MG-MEAS-034	P3-W29-KP1	29	3	Measurement problem solving	MG-MEAS	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core	Choose correct units and operations	Demonstrate “Choose correct units and operations” with correct measurement, calculation, notation and units.
MG-MEAS-035	P3-W29-KP2	29	3	Measurement problem solving	MG-MEAS	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core	Solve two-step length mass volume or time problems	Demonstrate “Solve two-step length mass volume or time problems” with correct measurement, calculation, notation and units.
PS-MODEL-003	P3-W29-KP3	29	3	Measurement problem solving	PS-MODEL	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core	Draw a bar model or timeline	Demonstrate “Draw a bar model or timeline” using an accurate labelled model that leads to the answer.
PS-CHECK-007	P3-W29-KP4	29	3	Measurement problem solving	PS-CHECK	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core	Check unit consistency	Demonstrate “Check unit consistency” by identifying or preventing an error and showing a valid check.
MG-MEAS-036	P3-W30-KP1	30	3	Term 3 mastery and application	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Integrate fractions and measurement	Demonstrate “Integrate fractions and measurement” with correct measurement, calculation, notation and units.
MG-MEAS-037	P3-W30-KP2	30	3	Term 3 mastery and application	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve an area-perimeter challenge	Demonstrate “Solve an area-perimeter challenge” with correct measurement, calculation, notation and units.

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PS-REASON-008	P3-W30-KP3	30	3	Term 3 mastery and application	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret a timetable	Demonstrate “Interpret a timetable” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-009	P3-W30-KP4	30	3	Term 3 mastery and application	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Explain a unit-conversion strategy	Demonstrate “Explain a unit-conversion strategy” by giving a correct conclusion and a mathematically valid reason.
PS-HEUR-002	P3-W30-KP5	30	3	Term 3 mastery and application	PS-HEUR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Complete a mixed non-routine task	Demonstrate “Complete a mixed non-routine task” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-WN-010	P3-W31-KP1	31	4	Advanced number sense	NA-WN	Number & Algebra	Extend	Advanced Bridge / Extension	Form numbers under digit constraints	Demonstrate “Form numbers under digit constraints” accurately in one direct item and one age-appropriate contextual application.
NA-WN-011	P3-W31-KP2	31	4	Advanced number sense	NA-WN	Number & Algebra	Extend	Advanced Bridge / Extension	Round informally for estimation	Demonstrate “Round informally for estimation” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-010	P3-W31-KP3	31	4	Advanced number sense	PS-REASON	Number & Algebra	Extend	Advanced Bridge / Extension	Find bounds for a reasonable answer	Demonstrate “Find bounds for a reasonable answer” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-011	P3-W31-KP4	31	4	Advanced number sense	PS-REASON	Number & Algebra	Extend	Advanced Bridge / Extension	Detect impossible numerical claims	Demonstrate “Detect impossible numerical claims” by giving a correct conclusion and a mathematically valid reason.
NA-WN-012	P3-W32-KP1	32	4	Advanced operation reasoning	NA-WN	Number & Algebra	Extend	Advanced Bridge / Extension	Use order implied by a multi-step context	Demonstrate “Use order implied by a multi-step context” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-012	P3-W32-KP2	32	4	Advanced operation reasoning	PS-REASON	Number & Algebra	Extend	Advanced Bridge / Extension	Find missing digits in algorithms	Demonstrate “Find missing digits in algorithms” by giving a correct conclusion and a mathematically valid reason.
NA-ALG-001	P3-W32-KP3	32	4	Advanced operation reasoning	NA-ALG	Number & Algebra	Extend	Advanced Bridge / Extension	Use inverse operations in equations	Demonstrate “Use inverse operations in equations” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-002	P3-W32-KP4	32	4	Advanced operation reasoning	NA-ALG	Number & Algebra	Extend	Advanced Bridge / Extension	Generalise a calculation pattern	Demonstrate “Generalise a calculation pattern” using a correct rule, expression or equation and verify the result where appropriate.
NA-FR-016	P3-W33-KP1	33	4	Advanced fraction reasoning	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Use 0 one-half and 1 as benchmarks	Demonstrate “Use 0 one-half and 1 as benchmarks” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-017	P3-W33-KP2	33	4	Advanced fraction reasoning	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Compare fractions with close values	Demonstrate “Compare fractions with close values” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-018	P3-W33-KP3	33	4	Advanced fraction reasoning	NA-FR	Number & Algebra	Extend	Advanced Bridge / Extension	Find multiple equivalent forms	Demonstrate “Find multiple equivalent forms” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-REASON-013	P3-W33-KP4	33	4	Advanced fraction reasoning	PS-REASON	Number & Algebra	Extend	Advanced Bridge / Extension	Explain a common fraction misconception	Demonstrate “Explain a common fraction misconception” by giving a correct conclusion and a mathematically valid reason.
MG-GEO-010	P3-W34-KP1	34	4	Geometry and spatial reasoning	MG-GEO	Measurement & Geometry	Consolidate	Advanced Bridge / Extension	Identify symmetry in familiar shapes	Demonstrate “Identify symmetry in familiar shapes” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-011	P3-W34-KP2	34	4	Geometry and spatial reasoning	MG-GEO	Measurement & Geometry	Consolidate	Advanced Bridge / Extension	Visualise simple turns and positions	Demonstrate “Visualise simple turns and positions” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-012	P3-W34-KP3	34	4	Geometry and spatial reasoning	MG-GEO	Measurement & Geometry	Consolidate	Advanced Bridge / Extension	Compose shapes to meet constraints	Demonstrate “Compose shapes to meet constraints” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-013	P3-W34-KP4	34	4	Geometry and spatial reasoning	MG-GEO	Measurement & Geometry	Consolidate	Advanced Bridge / Extension	Reason from incomplete diagrams	Demonstrate “Reason from incomplete diagrams” using an accurate diagram, stated property or geometric construction as appropriate.
ST-DATA-009	P3-W35-KP1	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Collect and categorise data	Demonstrate “Collect and categorise data” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-010	P3-W35-KP2	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Select a suitable bar-graph scale	Demonstrate “Select a suitable bar-graph scale” by extracting or organising data accurately and supporting the answer with evidence.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
ST-DATA-011	P3-W35-KP3	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Construct an accurate bar graph	Demonstrate “Construct an accurate bar graph” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-012	P3-W35-KP4	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Write an evidence-based conclusion	Demonstrate “Write an evidence-based conclusion” by extracting or organising data accurately and supporting the answer with evidence.
PS-MODEL-004	P3-W36-KP1	36	4	Model method mastery	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Choose part-whole comparison or equal-group models	Demonstrate “Choose part-whole comparison or equal-group models” using an accurate labelled model that leads to the answer.
PS-MODEL-005	P3-W36-KP2	36	4	Model method mastery	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Represent two-step relationships	Demonstrate “Represent two-step relationships” using an accurate labelled model that leads to the answer.
PS-MODEL-006	P3-W36-KP3	36	4	Model method mastery	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Label bars and units precisely	Demonstrate “Label bars and units precisely” using an accurate labelled model that leads to the answer.
NA-ALG-003	P3-W36-KP4	36	4	Model method mastery	NA-ALG	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Translate a model into equations	Demonstrate “Translate a model into equations” using a correct rule, expression or equation and verify the result where appropriate.
PS-HEUR-003	P3-W37-KP1	37	4	Heuristics introduction	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Make a systematic list	Demonstrate “Make a systematic list” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-CHECK-008	P3-W37-KP2	37	4	Heuristics introduction	PS-CHECK	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Guess check and improve	Demonstrate “Guess check and improve” by identifying or preventing an error and showing a valid check.
PS-HEUR-004	P3-W37-KP3	37	4	Heuristics introduction	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Work backward in a simple problem	Demonstrate “Work backward in a simple problem” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-ALG-004	P3-W37-KP4	37	4	Heuristics introduction	NA-ALG	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Look for a pattern	Demonstrate “Look for a pattern” using a correct rule, expression or equation and verify the result where appropriate.
PS-REASON-014	P3-W38-KP1	38	4	Integrated PSLE-style foundations	PS-REASON	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Solve multi-topic short-answer problems	Demonstrate “Solve multi-topic short-answer problems” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-015	P3-W38-KP2	38	4	Integrated PSLE-style foundations	PS-REASON	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Explain reasoning with mathematical language	Demonstrate “Explain reasoning with mathematical language” by giving a correct conclusion and a mathematically valid reason.
PS-CHECK-009	P3-W38-KP3	38	4	Integrated PSLE-style foundations	PS-CHECK	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Check through estimation or inverse operations	Demonstrate “Check through estimation or inverse operations” by identifying or preventing an error and showing a valid check.
NA-WN-013	P3-W38-KP4	38	4	Integrated PSLE-style foundations	NA-WN	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Compare an efficient and inefficient method	Demonstrate “Compare an efficient and inefficient method” accurately in one direct item and one age-appropriate contextual application.
NA-WN-014	P3-W39-KP1	39	4	P3 cumulative mastery	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve all P3 number and geometry knowledge	Demonstrate “Retrieve all P3 number and geometry knowledge” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-038	P3-W39-KP2	39	4	P3 cumulative mastery	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply all measurement and statistics skills	Demonstrate “Apply all measurement and statistics skills” with correct measurement, calculation, notation and units.
PS-REASON-016	P3-W39-KP3	39	4	P3 cumulative mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve mixed two-step word problems	Demonstrate “Solve mixed two-step word problems” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-017	P3-W39-KP4	39	4	P3 cumulative mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Correct representative misconceptions	Demonstrate “Correct representative misconceptions” by giving a correct conclusion and a mathematically valid reason.
NA-WN-015	P3-W40-KP1	40	4	P3 year-end mastery and P4 readiness	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Master whole numbers to 10 000 and four operations	Demonstrate “Master whole numbers to 10 000 and four operations” accurately in one direct item and one age-appropriate contextual application.
NA-FR-019	P3-W40-KP2	40	4	P3 year-end mastery and P4 readiness	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Master core fraction relationships	Demonstrate “Master core fraction relationships” with an appropriate fraction model or calculation and a simplified final answer where required.
MG-MEAS-039	P3-W40-KP3	40	4	P3 year-end mastery and P4 readiness	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply graphs angles lines area perimeter and measures	Demonstrate “Apply graphs angles lines area perimeter and measures” 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
PS-CHECK-010	P3-W40-KP4	40	4	P3 year-end mastery and P4 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use models heuristics and checking	Demonstrate “Use models heuristics and checking” by identifying or preventing an error and showing a valid check.
PS-REASON-018	P3-W40-KP5	40	4	P3 year-end mastery and P4 readiness	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Transfer learning to unfamiliar contexts	Demonstrate “Transfer learning to unfamiliar contexts” by giving a correct conclusion and a mathematically valid reason.

Primary 3 Mathematics - Spiral Progression Map

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

Spiral Family	P3 Entry Point	Development / Revisit Weeks	End-of-P3 Expectation	MOE Role	P4 Bridge	Atomic KP Count	Status
NA-WN	W1: Numbers to 10 000	W2, W10, W20, W31, W32, W38, W39, W40	Read, represent, compare, order and estimate with whole numbers to 10 000.	Core	Numbers to 100 000, factors and multiples	15	Complete
NA-AS	W3: Addition to 10 000	W4, W5, W11, W13	Add and subtract to 10 000 using written, mental, estimation and inverse strategies.	Core	Four operations with larger numbers and multi-step models	15	Complete
NA-MD	W6: Tables of 6 7 8 and 9	W7, W8, W12	Recall all core tables and multiply/divide up to three digits by one digit, including remainders.	Core	Factors, multiples and larger-number operations	13	Complete
NA-FR	W18: Equivalent fractions	W19, W20, W21, W22, W33, W40	Use equivalence to compare, order and add/subtract related fractions; attempt fraction-of-set readiness.	Core + Advanced Bridge	Formal fraction of a set, mixed numbers and unlike-fraction operations	19	Complete
NA-ALG	W32: Advanced operation reasoning	W36, W37	Describe and generalise calculation or number patterns in age-appropriate language.	Mathematical process bridge	Formal number patterns and early algebra	4	Complete
MG-MEAS	W9: Money operations	W10, W23, W24, W25, W26, W27, W28, W29, W30, W39, W40	Convert and apply length, mass, capacity and time units; solve area and perimeter problems.	Core	Decimals, composite measures and more complex area/perimeter	39	Complete
MG-GEO	W16: Angles	W17, W20, W34	Recognise right-angle relationships and parallel/perpendicular lines; attempt labelled spatial extension.	Core + Advanced Bridge	Angles, rectangles/squares, symmetry and nets	13	Complete
ST-DATA	W14: Bar graphs	W15, W20, W35	Read, construct and interpret scaled vertical and horizontal bar graphs.	Core	Tables, line graphs and richer data analysis	12	Complete
PS-MODEL	W11: Word problems: addition and subtraction	W12, W29, W36	Select, label and translate comparison, part-whole, equal-group and before-after models.	Mathematical processes	Multi-step model method and complex comparison	6	Complete
PS-HEUR	W10: Term 1 mastery and transfer	W30, W37	Use systematic listing, guess-check-improve, working backward and pattern search in scaffolded tasks.	Mathematical processes	Broader heuristic selection and transfer	4	Complete
PS-REASON	W2: Number patterns and estimation	W5, W10, W15, W18, W19, W20, W30, W31, W32, W33, W38, W39, W40	Explain operations, fraction equivalence, data conclusions, unit choices and strategy efficiency.	Mathematical processes	Longer chains of evidence-based reasoning	18	Complete

Spiral Family	P3 Entry Point	Development / Revisit Weeks	End-of-P3 Expectation	MOE Role	P4 Bridge	Atomic KP Count	Status
PS-CHECK	W3: Addition to 10 000	W4, W7, W8, W10, W13, W29, W37, W38, W40	Use inverse operations, estimation, unit consistency and error analysis to verify work.	Mathematical processes	Independent checking of multi-step solutions	10	Complete
PS-COMM	Embedded across weekly tasks	Embedded retrieval	Use equations, labelled models, graph scales, units and mathematical statements precisely.	Mathematical processes	More formal and concise mathematical communication	0	Embedded only

Primary 3 Mathematics - MOE Coverage Audit

Cross-check of P3 syllabus content and mathematical processes against the 40-week allocation.

MOE Strand / Topic	Expected P3 Scope	Allocated Weeks	Progression Check	Assessment Readiness	Advanced Boundary	Status	Source
Whole Numbers	Numbers to 10 000; four-digit place value, comparison, order, patterns and estimation	W1-W2, W10-W13, W31-W32, W38-W40	P2 numbers to 1000 -> P3 numbers to 10 000 -> estimation and constraints	Representation, place value, comparison, sequence and application	Bounds, digit constraints and impossible claims are labelled extension	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Addition and Subtraction	Algorithms to 10 000, mental calculation and up-to-two-step word problems	W3-W5, W10-W13, W30-W32, W36, W38-W40	Written methods -> mental efficiency -> mixed problem solving -> transfer	Renaming, estimation, bar models, unknowns and checking	Missing-digit and generalisation tasks are labelled extension	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Multiplication and Division	Tables of 6, 7, 8 and 9; multiply/divide up to three digits by one digit; remainders	W6-W8, W10, W12-W13, W30-W32, W36-W40	Fact fluency -> algorithms -> contextual interpretation -> integrated models	Products, quotients, remainders, estimation and inverse checks	More complex unitary reasoning remains scaffolded	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Fractions	Equivalent fractions; comparison/order of unlike fractions; related-fraction operations	W18-W21, W30, W33, W38-W40	Equivalence -> comparison -> operations -> fraction of a set -> reasoning	Models, simplest/equivalent forms, related operations and contextual application	W22 fraction of a set is explicitly labelled as a P4 readiness extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Money	Add/subtract decimal money notation, change, comparison and two-step purchase problems	W9-W10, W39-W40	P2 money notation -> P3 larger amounts and two-step decisions	Accurate operations, notation, comparison and change	Purchase-option reasoning without introducing decimal theory beyond money	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Length, Mass and Liquid Volume	km/m/cm, kg/g and L/ml; compound-unit measurement, conversion and problems	W23-W25, W29-W30, W39-W40	Measure -> convert -> combine in common units -> two-step application	Unit selection, scale reading, conversion and contextual problems	Conversions remain within taught metric relationships	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Area and Perimeter	Distinguish area/perimeter; square units; rectangle/square formulae and missing dimensions	W26-W27, W30, W39-W40	Concrete grid counting -> formula use -> missing-side application	Concept distinction, formulas, dimensions and word problems	Composite grid item is separately labelled advanced bridge	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Time	Seconds; hours/minutes; start, finish and duration; 24-hour clock	W28-W30, W39-W40	Clock language -> conversion -> duration -> timetable interpretation	Accurate time notation, conversion and timeline reasoning	24-hour use is limited to familiar contexts	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Data Handling	Scaled vertical/horizontal bar graphs; interpretation, construction and evidence-based conclusions	W14-W15, W20, W30, W35, W39-W40	Read -> compare -> evaluate claims -> construct -> conclude	Scales, totals, differences, graph construction and supported statements	No premature statistical measures	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Geometry	Angles as turns; right-angle comparison; perpendicular and parallel lines	W16-W17, W20, W34, W39-W40	Angle recognition -> line relationships -> spatial application	Identify, compare, draw and apply geometric relationships	Symmetry/incomplete-diagram work is labelled P4 readiness extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Mathematical Processes	Representation, reasoning, communication, connections, applications, heuristics and checking	Embedded weekly; explicit W10-W13, W20, W29-W32, W36-W40	Guided models -> strategy selection -> multi-topic transfer	Model, method, equations, answer, explanation and verification	Non-routine tasks remain scaffolded and age-appropriate	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	P3 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.