

PSLE Checkpoint Primary 6 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	18
Spiral / Transfer Weeks	19
KP Range per Week	4-5



Curriculum Design Rules

1	MOE foundation	All required P6 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 P6 syllabus scope against the weekly allocation.
Sources & Notes	Records source scope, codes and curriculum interpretation rules.

Primary 6 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-FR	Develop	MOE Core	Fraction division	1. Divide a proper fraction by a whole number 2. Divide a whole number by a proper fraction 3. Divide a proper fraction by a proper fraction 4. Interpret fraction division in context	Retrieve high-value P5 prerequisites	Concept recognition, procedural accuracy, application and explanation	Develop fraction division through accurate representations, explanation, strategy choice and one unfamiliar application.
1	2	2	4	Problem Solving & Mathematical Processes	NA-FR	Master / Transfer	Spiral Maintenance / Transfer	Fraction mastery problems	1. Solve multi-step fraction-of-remainder problems 2. Use common-unit bar models 3. Find the whole from fractional information 4. Check answers using multiplication	Retrieve: Fraction division; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop fraction mastery problems through accurate representations, explanation, strategy choice and one unfamiliar application.
1	3	3	4	Number & Algebra	NA-PROP	Develop	MOE Core	Ratio notation and interpretation	1. Interpret a:b and a:b:c 2. Find ratios of two or three quantities 3. Express ratios in simplest form 4. Compare ratio with fraction language	Retrieve: Fraction mastery problems; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop ratio notation and interpretation through accurate representations, explanation, strategy choice and one unfamiliar application.
1	4	4	4	Number & Algebra	NA-PROP	Develop	MOE Core	Equivalent ratios and missing terms	1. Generate equivalent ratios 2. Find a missing term 3. Use scaling and common units 4. Solve ratio tables	Retrieve: Ratio notation and interpretation; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop equivalent ratios and missing terms through accurate representations, explanation, strategy choice and one unfamiliar application.
1	5	5	4	Number & Algebra	NA-PROP	Develop	MOE Core	Dividing a quantity in a ratio	1. Find total number of parts 2. Find one part 3. Divide a quantity in a given ratio 4. Solve part-part and part-whole ratio problems	Retrieve: Equivalent ratios and missing terms; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop dividing a quantity in a ratio through accurate representations, explanation, strategy choice and one unfamiliar application.
1	6	6	4	Problem Solving & Mathematical Processes	NA-PROP	Develop	MOE Core	Changing-ratio problems	1. Represent before and after ratios 2. Track unchanged quantities 3. Solve transfer and addition/removal problems 4. Verify using final ratios	Retrieve: Dividing a quantity in a ratio; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop changing-ratio problems through accurate representations, explanation, strategy choice and one unfamiliar application.
1	7	7	4	Number & Algebra	NA-PCT	Develop	MOE Core	Percentage: finding the whole	1. Find the whole from a percentage part 2. Use unitary and bar-model methods 3. Connect percentage to fraction and ratio 4. Estimate the original whole	Retrieve: Changing-ratio problems; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop percentage: finding the whole through accurate representations, explanation, strategy choice and one unfamiliar application.
1	8	8	4	Number & Algebra	NA-PCT	Develop	MOE Core	Percentage increase and decrease	1. Find percentage increase 2. Find percentage decrease 3. Find a new value after change 4. Distinguish original and final bases	Retrieve: Percentage: finding the whole; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop percentage increase and decrease through accurate representations, explanation, strategy choice and one unfamiliar application.
1	9	9	4	Problem Solving & Mathematical Processes	NA-PCT	Master / Transfer	Spiral Maintenance / Transfer	Financial percentage maintenance	1. Retrieve discount GST and annual-interest methods from P5 2. Solve repeated but non-compound percentage contexts 3. Use before-after models for financial changes 4. Compare absolute and percentage changes	Retrieve: Percentage increase and decrease; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop complex percentage problems 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 fraction ratio and percentage 2. Solve multi-step proportional problems 3. Maintain whole-number operations in mixed contexts 4. Maintain decimal operations in mixed contexts 5. Check with inverse relationships	Retrieve: Complex percentage problems; 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	Number & Algebra	NA-PROP	Extend	Advanced Bridge / Extension	Rate maintenance and speed extension	1. Retrieve rate as amount per unit from P5 2. Relate distance speed and time as an extension 3. Find speed distance or time in guided contexts 4. Convert time units before calculation	Retrieve: Term 1 mastery and transfer; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop rate and speed 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-PROP	Develop / Apply	Spiral Maintenance / Transfer	Ratio and percentage integration	1. Connect fractions ratios and percentages 2. Solve a multi-step ratio problem 3. Solve a percentage-change problem with a changing base 4. Verify proportional answers using a second representation	Retrieve: Rate and speed; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop speed problems through accurate representations, explanation, strategy choice and one unfamiliar application.
2	3	13	4	Number & Algebra	NA-ALG	Develop	MOE Core	Algebraic expressions	1. Use letters to represent unknown numbers 2. Interpret $a+3$ $3a$ and $a+3$ forms 3. Translate words into expressions 4. Distinguish expression from equation	Retrieve: Speed problems; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop algebraic expressions through accurate representations, explanation, strategy choice and one unfamiliar application.
2	4	14	4	Number & Algebra	NA-ALG	Develop	MOE Core	Simplifying and evaluating expressions	1. Combine like terms in simple linear expressions 2. Simplify without brackets 3. Substitute values 4. Check equivalence numerically	Retrieve: Algebraic expressions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop simplifying and evaluating expressions through accurate representations, explanation, strategy choice and one unfamiliar application.
2	5	15	4	Number & Algebra	NA-ALG	Develop	MOE Core	Simple linear equations	1. Solve equations with whole-number coefficients 2. Use inverse operations 3. Represent word relationships algebraically 4. Verify solutions by substitution	Retrieve: Simplifying and evaluating expressions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop simple linear equations through accurate representations, explanation, strategy choice and one unfamiliar application.
2	6	16	4	Statistics	ST-DATA	Develop	MOE Core	Average	1. Find average from total and count 2. Find total from average and count 3. Find a missing value 4. Interpret average as balance or equal share	Retrieve: Simple linear equations; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop average through accurate representations, explanation, strategy choice and one unfamiliar application.
2	7	17	4	Problem Solving & Mathematical Processes	ST-DATA	Extend	Advanced Bridge / Extension	Advanced average problems	1. Handle changed averages 2. Combine two data groups 3. Solve missing-item average problems 4. Judge claims based on averages	Retrieve: Average; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop advanced average problems through accurate representations, explanation, strategy choice and one unfamiliar application.
2	8	18	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Angles in geometric figures	1. Use triangle and quadrilateral properties 2. Use angles on lines and at points 3. Find unknown angles in composite figures 4. State a complete chain of reasons	Retrieve: Advanced average problems; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop angles in geometric figures through accurate representations, explanation, strategy choice and one unfamiliar application.
2	9	19	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Special quadrilaterals	1. Apply properties of parallelogram rhombus trapezium rectangle and square 2. Use parallel-line angle relationships 3. Find unknown angles 4. Avoid assumptions from appearance	Retrieve: Angles in geometric figures; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop special quadrilaterals 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 algebra average speed and angle knowledge 2. Maintain fraction operations accurately 3. Maintain decimal operations accurately 4. Solve one complex geometry problem 5. Model a speed or ratio problem	Retrieve: Special quadrilaterals; 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	Measurement & Geometry	MG-GEO	Develop / Apply	MOE Core	Circle concepts and formulae	1. Identify radius diameter centre and circumference 2. Use diameter = $2 \times$ radius 3. Use circumference formula 4. Use area formula	Retrieve: Term 2 mastery and reasoning; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop circle concepts and formulae through accurate representations, explanation, strategy choice and one unfamiliar application.
3	2	22	4	Measurement & Geometry	MG-GEO	Develop / Apply	MOE Core	Semicircles and quarter circles	1. Find arc and perimeter of a semicircle 2. Find area of a semicircle 3. Find arc and perimeter of a quarter circle 4. Find area of a quarter circle	Retrieve: Circle concepts and formulae; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop semicircles and quarter circles through accurate representations, explanation, strategy choice and one unfamiliar application.
3	3	23	4	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Composite area with circles	1. Decompose composite figures 2. Add and subtract areas involving circles 3. Find shaded area 4. Use consistent units and π	Retrieve: Semicircles and quarter circles; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop composite area with circles through accurate representations, explanation, strategy choice and one unfamiliar application.

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3	4	24	4	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Composite perimeter with curves	1. Trace only the external boundary 2. Combine straight and curved lengths 3. Avoid including internal edges 4. Solve missing-length perimeter problems	Retrieve: Composite area with circles; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop composite perimeter with curves through accurate representations, explanation, strategy choice and one unfamiliar application.
3	5	25	4	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core	Missing dimensions from volume	1. Find a missing cuboid dimension from its volume 2. Find the edge length of a cube from its volume 3. Find cuboid height from volume and base area 4. Find the area of a cuboid face from volume and one dimension	Retrieve: Composite perimeter with curves; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop volume of cube and cuboid mastery through accurate representations, explanation, strategy choice and one unfamiliar application.
3	6	26	4	Problem Solving & Mathematical Processes	MG-MEAS	Develop / Apply	MOE Core + Advanced Bridge	Volume and liquid-level applications	1. Relate base area height and volume 2. Solve transfer between rectangular tanks 3. Find change in water level 4. Apply unit conversions accurately	Retrieve: Volume of cube and cuboid mastery; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop volume and liquid-level problems through accurate representations, explanation, strategy choice and one unfamiliar application.
3	7	27	4	Measurement & Geometry	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	Composite figures mastery	1. Find area of square rectangle triangle semicircle and quarter circle combinations 2. Find perimeter of composite figures 3. Use area subtraction efficiently 4. Solve reverse dimension problems	Retrieve: Volume and liquid-level problems; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop composite figures mastery through accurate representations, explanation, strategy choice and one unfamiliar application.
3	8	28	5	Statistics	ST-DATA	Develop / Apply	Spiral Maintenance / Transfer	Data synthesis and numerical maintenance	1. Interpret tables line graphs and pie charts 2. Combine information from two representations 3. Use average ratio or percentage with data 4. Apply decimal operations in data contexts 5. Evaluate a conclusion against evidence	Retrieve: Composite figures mastery; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop data synthesis and numerical maintenance through accurate representations, explanation, strategy choice and one unfamiliar application.
3	9	29	4	Problem Solving & Mathematical Processes	PS-MODEL	Master / Transfer	Spiral Maintenance / Transfer	Model-method mastery	1. Select common-unit before-after or comparison models 2. Represent changing ratios and percentages 3. Translate models into equations 4. Use model labels to prevent logical errors	Retrieve: Data synthesis and numerical maintenance; 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.
3	10	30	5	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	Term 3 mastery and application	1. Integrate circles volume data and proportional reasoning 2. Solve a complex composite figure 3. Solve a tank-volume problem 4. Convert measurement units within multi-step problems 5. Interpret multi-source data	Retrieve: Model-method mastery; 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	Problem Solving & Mathematical Processes	PS-HEUR	Consolidate	Spiral Maintenance / Transfer	Heuristic: working backward and before-after	1. Work backward from a final value 2. Track quantities before and after change 3. Use inverse operations systematically 4. Validate the reconstructed starting condition	Retrieve: Term 3 mastery and application; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop heuristic: working backward and before-after through accurate representations, explanation, strategy choice and one unfamiliar application.
4	2	32	4	Problem Solving & Mathematical Processes	PS-HEUR	Consolidate	Spiral Maintenance / Transfer	Heuristic: assumption and difference	1. Make an assumption 2. Calculate the resulting difference 3. Use unit difference to correct the assumption 4. Apply to heads-and-legs or value problems	Retrieve: Heuristic: working backward and before-after; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop heuristic: assumption and difference through accurate representations, explanation, strategy choice and one unfamiliar application.
4	3	33	4	Problem Solving & Mathematical Processes	NA-ALG	Consolidate	Spiral Maintenance / Transfer	Heuristic: patterns and systematic listing	1. Identify invariant and changing features 2. Make a systematic list or table 3. Generalise a pattern 4. Prove completeness in age-appropriate language	Retrieve: Heuristic: assumption and difference; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop heuristic: patterns and systematic listing through accurate representations, explanation, strategy choice and one unfamiliar application.
4	4	34	4	Problem Solving & Mathematical Processes	PS-HEUR	Consolidate	Spiral Maintenance / Transfer	Non-routine proportional reasoning	1. Connect fraction ratio percentage and rate 2. Choose a common unit 3. Solve multi-stage proportional changes 4. Compare alternative efficient methods	Retrieve: Heuristic: patterns and systematic listing; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop non-routine proportional reasoning through accurate representations, explanation, strategy choice and one unfamiliar application.
4	5	35	4	Problem Solving & Mathematical Processes	MG-MEAS	Consolidate	Spiral Maintenance / Transfer	Non-routine geometry and measurement	1. Extract necessary information from complex diagrams 2. Combine angle area perimeter and volume 3. Use auxiliary reasoning without relying on scale 4. Present justified steps	Retrieve: Non-routine proportional reasoning; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop non-routine geometry and measurement through accurate representations, explanation, strategy choice and one unfamiliar application.

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4	6	36	5	Problem Solving & Mathematical Processes	PS-CHECK	Master / Transfer	Spiral Maintenance / Transfer	PSLE Paper 1 readiness	1. Maintain whole-number operations 2. Retrieve arithmetic facts and formulae 3. Solve concise short-answer questions 4. Use estimation to eliminate errors 5. Apply non-calculator computation requirements accurately	Retrieve: Non-routine geometry and measurement; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop psle paper 1 readiness through accurate representations, explanation, strategy choice and one unfamiliar application.
4	7	37	5	Problem Solving & Mathematical Processes	PS-COMM	Master / Transfer	Spiral Maintenance / Transfer	PSLE Paper 2 readiness	1. Maintain fraction operations 2. Maintain decimal operations 3. Organise structured multi-step solutions 4. Use diagrams models and equations 5. Check units rounding and final statements	Retrieve: PSLE Paper 1 readiness; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop psle paper 2 readiness through accurate representations, explanation, strategy choice and one unfamiliar application.
4	8	38	5	Problem Solving & Mathematical Processes	PS-CHECK	Master / Transfer	Spiral Maintenance / Transfer	Full-syllabus diagnostic retrieval	1. Maintain whole-number fraction and decimal fluency 2. Retrieve percentage ratio and algebra methods 3. Retrieve geometry mensuration and formulae 4. Interpret graphs tables and measurement information 5. Correct a mathematical misconception using valid working	Retrieve: PSLE Paper 2 readiness; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop full-syllabus diagnostic and repair 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	P6 integrated mastery	1. Solve balanced advanced problems across all strands 2. Select representations independently 3. Communicate rigorous reasoning 4. Use multiple checks for high-value questions	Retrieve: Full-syllabus diagnostic and repair; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p6 integrated 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	P6 year-end mastery and secondary readiness	1. Master PSLE core content and processes 2. Transfer knowledge across unfamiliar contexts 3. Use algebraic and proportional reasoning confidently 4. Interpret data and geometry critically 5. Verify answers using inverse operations estimation or substitution	Retrieve: P6 integrated mastery; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p6 year-end mastery and secondary readiness through accurate representations, explanation, strategy choice and one unfamiliar application.

Primary 6 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-FR-001	P6-W01-KP1	1	1	Fraction division	NA-FR	Number & Algebra	Develop	MOE Core	Divide a proper fraction by a whole number	Demonstrate “Divide a proper fraction by a whole number” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-002	P6-W01-KP2	1	1	Fraction division	NA-FR	Number & Algebra	Develop	MOE Core	Divide a whole number by a proper fraction	Demonstrate “Divide a whole number by a proper fraction” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-003	P6-W01-KP3	1	1	Fraction division	NA-FR	Number & Algebra	Develop	MOE Core	Divide a proper fraction by a proper fraction	Demonstrate “Divide a proper fraction by a proper fraction” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-004	P6-W01-KP4	1	1	Fraction division	NA-FR	Number & Algebra	Develop	MOE Core	Interpret fraction division in context	Demonstrate “Interpret fraction division in context” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-005	P6-W02-KP1	2	1	Fraction mastery problems	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve multi-step fraction-of-remainder problems	Demonstrate “Solve multi-step fraction-of-remainder problems” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-MODEL-001	P6-W02-KP2	2	1	Fraction mastery problems	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use common-unit bar models	Demonstrate “Use common-unit bar models” using an accurate labelled model that leads to the answer.
NA-FR-006	P6-W02-KP3	2	1	Fraction mastery problems	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Find the whole from fractional information	Demonstrate “Find the whole from fractional information” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-CHECK-001	P6-W02-KP4	2	1	Fraction mastery problems	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Check answers using multiplication	Demonstrate “Check answers using multiplication” by identifying or preventing an error and showing a valid check.
NA-PROP-001	P6-W03-KP1	3	1	Ratio notation and interpretation	NA-PROP	Number & Algebra	Develop	MOE Core	Interpret a:b and a:b:c	Demonstrate “Interpret a:b and a:b:c” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-002	P6-W03-KP2	3	1	Ratio notation and interpretation	NA-PROP	Number & Algebra	Develop	MOE Core	Find ratios of two or three quantities	Demonstrate “Find ratios of two or three quantities” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-003	P6-W03-KP3	3	1	Ratio notation and interpretation	NA-PROP	Number & Algebra	Develop	MOE Core	Express ratios in simplest form	Demonstrate “Express ratios in simplest form” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-004	P6-W03-KP4	3	1	Ratio notation and interpretation	NA-PROP	Number & Algebra	Develop	MOE Core	Compare ratio with fraction language	Demonstrate “Compare ratio with fraction language” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-005	P6-W04-KP1	4	1	Equivalent ratios and missing terms	NA-PROP	Number & Algebra	Develop	MOE Core	Generate equivalent ratios	Demonstrate “Generate equivalent ratios” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-006	P6-W04-KP2	4	1	Equivalent ratios and missing terms	NA-PROP	Number & Algebra	Develop	MOE Core	Find a missing term	Demonstrate “Find a missing term” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-007	P6-W04-KP3	4	1	Equivalent ratios and missing terms	NA-PROP	Number & Algebra	Develop	MOE Core	Use scaling and common units	Demonstrate “Use scaling and common units” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-008	P6-W04-KP4	4	1	Equivalent ratios and missing terms	NA-PROP	Number & Algebra	Develop	MOE Core	Solve ratio tables	Demonstrate “Solve ratio tables” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-009	P6-W05-KP1	5	1	Dividing a quantity in a ratio	NA-PROP	Number & Algebra	Develop	MOE Core	Find total number of parts	Demonstrate “Find total number of parts” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-010	P6-W05-KP2	5	1	Dividing a quantity in a ratio	NA-PROP	Number & Algebra	Develop	MOE Core	Find one part	Demonstrate “Find one part” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-011	P6-W05-KP3	5	1	Dividing a quantity in a ratio	NA-PROP	Number & Algebra	Develop	MOE Core	Divide a quantity in a given ratio	Demonstrate “Divide a quantity in a given ratio” using a correct proportional representation, calculation and contextual interpretation.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
NA-PROP-012	P6-W05-KP4	5	1	Dividing a quantity in a ratio	NA-PROP	Number & Algebra	Develop	MOE Core	Solve part-part and part-whole ratio problems	Demonstrate “Solve part-part and part-whole ratio problems” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-013	P6-W06-KP1	6	1	Changing-ratio problems	NA-PROP	Problem Solving & Mathematical Processes	Develop	MOE Core	Represent before and after ratios	Demonstrate “Represent before and after ratios” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-014	P6-W06-KP2	6	1	Changing-ratio problems	NA-PROP	Problem Solving & Mathematical Processes	Develop	MOE Core	Track unchanged quantities	Demonstrate “Track unchanged quantities” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-015	P6-W06-KP3	6	1	Changing-ratio problems	NA-PROP	Problem Solving & Mathematical Processes	Develop	MOE Core	Solve transfer and addition/removal problems	Demonstrate “Solve transfer and addition/removal problems” using a correct proportional representation, calculation and contextual interpretation.
PS-CHECK-002	P6-W06-KP4	6	1	Changing-ratio problems	PS-CHECK	Problem Solving & Mathematical Processes	Develop	MOE Core	Verify using final ratios	Demonstrate “Verify using final ratios” by identifying or preventing an error and showing a valid check.
NA-PCT-001	P6-W07-KP1	7	1	Percentage: finding the whole	NA-PCT	Number & Algebra	Develop	MOE Core	Find the whole from a percentage part	Demonstrate “Find the whole from a percentage part” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-002	P6-W07-KP2	7	1	Percentage: finding the whole	NA-PCT	Number & Algebra	Develop	MOE Core	Use unitary and bar-model methods	Demonstrate “Use unitary and bar-model methods” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-003	P6-W07-KP3	7	1	Percentage: finding the whole	NA-PCT	Number & Algebra	Develop	MOE Core	Connect percentage to fraction and ratio	Demonstrate “Connect percentage to fraction and ratio” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-004	P6-W07-KP4	7	1	Percentage: finding the whole	NA-PCT	Number & Algebra	Develop	MOE Core	Estimate the original whole	Demonstrate “Estimate the original whole” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-005	P6-W08-KP1	8	1	Percentage increase and decrease	NA-PCT	Number & Algebra	Develop	MOE Core	Find percentage increase	Demonstrate “Find percentage increase” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-006	P6-W08-KP2	8	1	Percentage increase and decrease	NA-PCT	Number & Algebra	Develop	MOE Core	Find percentage decrease	Demonstrate “Find percentage decrease” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-007	P6-W08-KP3	8	1	Percentage increase and decrease	NA-PCT	Number & Algebra	Develop	MOE Core	Find a new value after change	Demonstrate “Find a new value after change” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-008	P6-W08-KP4	8	1	Percentage increase and decrease	NA-PCT	Number & Algebra	Develop	MOE Core	Distinguish original and final bases	Demonstrate “Distinguish original and final bases” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-009	P6-W09-KP1	9	1	Financial percentage maintenance	NA-PCT	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve discount GST and annual-interest methods from P5	Demonstrate “Retrieve discount GST and annual-interest methods from P5” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-010	P6-W09-KP2	9	1	Financial percentage maintenance	NA-PCT	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve repeated but non-compound percentage contexts	Demonstrate “Solve repeated but non-compound percentage contexts” using a correct proportional representation, calculation and contextual interpretation.
PS-MODEL-002	P6-W09-KP3	9	1	Financial percentage maintenance	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use before-after models for financial changes	Demonstrate “Use before-after models for financial changes” using an accurate labelled model that leads to the answer.
NA-PCT-011	P6-W09-KP4	9	1	Financial percentage maintenance	NA-PCT	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Compare absolute and percentage changes	Demonstrate “Compare absolute and percentage changes” using a correct proportional representation, calculation and contextual interpretation.
NA-PCT-012	P6-W10-KP1	10	1	Term 1 mastery and transfer	NA-PCT	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve fraction ratio and percentage	Demonstrate “Retrieve fraction ratio and percentage” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-016	P6-W10-KP2	10	1	Term 1 mastery and transfer	NA-PROP	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve multi-step proportional problems	Demonstrate “Solve multi-step proportional problems” using a correct proportional representation, calculation and contextual interpretation.
NA-WN-001	P6-W10-KP3	10	1	Term 1 mastery and transfer	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain whole-number operations in mixed contexts	Demonstrate “Maintain whole-number operations in mixed contexts” accurately in one direct item and one age-appropriate contextual application.
NA-DEC-001	P6-W10-KP4	10	1	Term 1 mastery and transfer	NA-DEC	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain decimal operations in mixed contexts	Demonstrate “Maintain decimal operations in mixed contexts” using correct place value, alignment and stated accuracy where required.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
PS-CHECK-003	P6-W10-KP5	10	1	Term 1 mastery and transfer	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Check with inverse relationships	Demonstrate “Check with inverse relationships” by identifying or preventing an error and showing a valid check.
NA-PROP-017	P6-W11-KP1	11	2	Rate maintenance and speed extension	NA-PROP	Number & Algebra	Extend	Advanced Bridge / Extension	Retrieve rate as amount per unit from P5	Demonstrate “Retrieve rate as amount per unit from P5” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-018	P6-W11-KP2	11	2	Rate maintenance and speed extension	NA-PROP	Number & Algebra	Extend	Advanced Bridge / Extension	Relate distance speed and time as an extension	Demonstrate “Relate distance speed and time as an extension” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-019	P6-W11-KP3	11	2	Rate maintenance and speed extension	NA-PROP	Number & Algebra	Extend	Advanced Bridge / Extension	Find speed distance or time in guided contexts	Demonstrate “Find speed distance or time in guided contexts” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-020	P6-W11-KP4	11	2	Rate maintenance and speed extension	NA-PROP	Number & Algebra	Extend	Advanced Bridge / Extension	Convert time units before calculation	Demonstrate “Convert time units before calculation” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-021	P6-W12-KP1	12	2	Ratio and percentage integration	NA-PROP	Problem Solving & Mathematical Processes	Develop / Apply	Spiral Maintenance / Transfer	Connect fractions ratios and percentages	Demonstrate “Connect fractions ratios and percentages” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-022	P6-W12-KP2	12	2	Ratio and percentage integration	NA-PROP	Problem Solving & Mathematical Processes	Develop / Apply	Spiral Maintenance / Transfer	Solve a multi-step ratio problem	Demonstrate “Solve a multi-step ratio problem” using a correct proportional representation, calculation and contextual interpretation.
NA-PROP-023	P6-W12-KP3	12	2	Ratio and percentage integration	NA-PROP	Problem Solving & Mathematical Processes	Develop / Apply	Spiral Maintenance / Transfer	Solve a percentage-change problem with a changing base	Demonstrate “Solve a percentage-change problem with a changing base” using a correct proportional representation, calculation and contextual interpretation.
PS-CHECK-004	P6-W12-KP4	12	2	Ratio and percentage integration	PS-CHECK	Problem Solving & Mathematical Processes	Develop / Apply	Spiral Maintenance / Transfer	Verify proportional answers using a second representation	Demonstrate “Verify proportional answers using a second representation” by identifying or preventing an error and showing a valid check.
NA-ALG-001	P6-W13-KP1	13	2	Algebraic expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Use letters to represent unknown numbers	Demonstrate “Use letters to represent unknown numbers” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-002	P6-W13-KP2	13	2	Algebraic expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Interpret $a+3$ $3a$ and $a\div3$ forms	Demonstrate “Interpret $a+3$ $3a$ and $a\div3$ forms” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-003	P6-W13-KP3	13	2	Algebraic expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Translate words into expressions	Demonstrate “Translate words into expressions” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-004	P6-W13-KP4	13	2	Algebraic expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Distinguish expression from equation	Demonstrate “Distinguish expression from equation” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-005	P6-W14-KP1	14	2	Simplifying and evaluating expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Combine like terms in simple linear expressions	Demonstrate “Combine like terms in simple linear expressions” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-006	P6-W14-KP2	14	2	Simplifying and evaluating expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Simplify without brackets	Demonstrate “Simplify without brackets” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-007	P6-W14-KP3	14	2	Simplifying and evaluating expressions	NA-ALG	Number & Algebra	Develop	MOE Core	Substitute values	Demonstrate “Substitute values” using a correct rule, expression or equation and verify the result where appropriate.
PS-CHECK-005	P6-W14-KP4	14	2	Simplifying and evaluating expressions	PS-CHECK	Number & Algebra	Develop	MOE Core	Check equivalence numerically	Demonstrate “Check equivalence numerically” by identifying or preventing an error and showing a valid check.
NA-ALG-008	P6-W15-KP1	15	2	Simple linear equations	NA-ALG	Number & Algebra	Develop	MOE Core	Solve equations with whole-number coefficients	Demonstrate “Solve equations with whole-number coefficients” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-009	P6-W15-KP2	15	2	Simple linear equations	NA-ALG	Number & Algebra	Develop	MOE Core	Use inverse operations	Demonstrate “Use inverse operations” using a correct rule, expression or equation and verify the result where appropriate.
NA-ALG-010	P6-W15-KP3	15	2	Simple linear equations	NA-ALG	Number & Algebra	Develop	MOE Core	Represent word relationships algebraically	Demonstrate “Represent word relationships algebraically” using a correct rule, expression or equation and verify the result where appropriate.
PS-CHECK-006	P6-W15-KP4	15	2	Simple linear equations	PS-CHECK	Number & Algebra	Develop	MOE Core	Verify solutions by substitution	Demonstrate “Verify solutions by substitution” by identifying or preventing an error and showing a valid check.

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ST-DATA-001	P6-W16-KP1	16	2	Average	ST-DATA	Statistics	Develop	MOE Core	Find average from total and count	Demonstrate “Find average from total and count” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-002	P6-W16-KP2	16	2	Average	ST-DATA	Statistics	Develop	MOE Core	Find total from average and count	Demonstrate “Find total from average and count” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-003	P6-W16-KP3	16	2	Average	ST-DATA	Statistics	Develop	MOE Core	Find a missing value	Demonstrate “Find a missing value” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-004	P6-W16-KP4	16	2	Average	ST-DATA	Statistics	Develop	MOE Core	Interpret average as balance or equal share	Demonstrate “Interpret average as balance or equal share” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-005	P6-W17-KP1	17	2	Advanced average problems	ST-DATA	Problem Solving & Mathematical Processes	Extend	Advanced Bridge / Extension	Handle changed averages	Demonstrate “Handle changed averages” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-006	P6-W17-KP2	17	2	Advanced average problems	ST-DATA	Problem Solving & Mathematical Processes	Extend	Advanced Bridge / Extension	Combine two data groups	Demonstrate “Combine two data groups” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-007	P6-W17-KP3	17	2	Advanced average problems	ST-DATA	Problem Solving & Mathematical Processes	Extend	Advanced Bridge / Extension	Solve missing-item average problems	Demonstrate “Solve missing-item average problems” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-008	P6-W17-KP4	17	2	Advanced average problems	ST-DATA	Problem Solving & Mathematical Processes	Extend	Advanced Bridge / Extension	Judge claims based on averages	Demonstrate “Judge claims based on averages” by extracting or organising data accurately and supporting the answer with evidence.
MG-GEO-001	P6-W18-KP1	18	2	Angles in geometric figures	MG-GEO	Measurement & Geometry	Develop	MOE Core	Use triangle and quadrilateral properties	Demonstrate “Use triangle and quadrilateral properties” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-002	P6-W18-KP2	18	2	Angles in geometric figures	MG-GEO	Measurement & Geometry	Develop	MOE Core	Use angles on lines and at points	Demonstrate “Use angles on lines and at points” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-003	P6-W18-KP3	18	2	Angles in geometric figures	MG-GEO	Measurement & Geometry	Develop	MOE Core	Find unknown angles in composite figures	Demonstrate “Find unknown angles in composite figures” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-004	P6-W18-KP4	18	2	Angles in geometric figures	MG-GEO	Measurement & Geometry	Develop	MOE Core	State a complete chain of reasons	Demonstrate “State a complete chain of reasons” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-005	P6-W19-KP1	19	2	Special quadrilaterals	MG-GEO	Measurement & Geometry	Develop	MOE Core	Apply properties of parallelogram rhombus trapezium rectangle and square	Demonstrate “Apply properties of parallelogram rhombus trapezium rectangle and square” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-006	P6-W19-KP2	19	2	Special quadrilaterals	MG-GEO	Measurement & Geometry	Develop	MOE Core	Use parallel-line angle relationships	Demonstrate “Use parallel-line angle relationships” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-007	P6-W19-KP3	19	2	Special quadrilaterals	MG-GEO	Measurement & Geometry	Develop	MOE Core	Find unknown angles	Demonstrate “Find unknown angles” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-008	P6-W19-KP4	19	2	Special quadrilaterals	MG-GEO	Measurement & Geometry	Develop	MOE Core	Avoid assumptions from appearance	Demonstrate “Avoid assumptions from appearance” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-009	P6-W20-KP1	20	2	Term 2 mastery and reasoning	MG-GEO	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve algebra average speed and angle knowledge	Demonstrate “Retrieve algebra average speed and angle knowledge” using an accurate diagram, stated property or geometric construction as appropriate.
NA-FR-007	P6-W20-KP2	20	2	Term 2 mastery and reasoning	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain fraction operations accurately	Demonstrate “Maintain fraction operations accurately” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-DEC-002	P6-W20-KP3	20	2	Term 2 mastery and reasoning	NA-DEC	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain decimal operations accurately	Demonstrate “Maintain decimal operations accurately” using correct place value, alignment and stated accuracy where required.
PS-REASON-001	P6-W20-KP4	20	2	Term 2 mastery and reasoning	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve one complex geometry problem	Demonstrate “Solve one complex geometry problem” by giving a correct conclusion and a mathematically valid reason.
NA-PROP-024	P6-W20-KP5	20	2	Term 2 mastery and reasoning	NA-PROP	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Model a speed or ratio problem	Demonstrate “Model a speed or ratio problem” using a correct proportional representation, calculation and contextual interpretation.

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MG-GEO-010	P6-W21-KP1	21	3	Circle concepts and formulae	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Identify radius diameter centre and circumference	Demonstrate "Identify radius diameter centre and circumference" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-011	P6-W21-KP2	21	3	Circle concepts and formulae	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Use diameter = 2 × radius	Demonstrate "Use diameter = 2 × radius" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-012	P6-W21-KP3	21	3	Circle concepts and formulae	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Use circumference formula	Demonstrate "Use circumference formula" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-013	P6-W21-KP4	21	3	Circle concepts and formulae	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Use area formula	Demonstrate "Use area formula" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-014	P6-W22-KP1	22	3	Semicircles and quarter circles	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Find arc and perimeter of a semicircle	Demonstrate "Find arc and perimeter of a semicircle" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-015	P6-W22-KP2	22	3	Semicircles and quarter circles	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Find area of a semicircle	Demonstrate "Find area of a semicircle" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-016	P6-W22-KP3	22	3	Semicircles and quarter circles	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Find arc and perimeter of a quarter circle	Demonstrate "Find arc and perimeter of a quarter circle" using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-017	P6-W22-KP4	22	3	Semicircles and quarter circles	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Find area of a quarter circle	Demonstrate "Find area of a quarter circle" using an accurate diagram, stated property or geometric construction as appropriate.
MG-MEAS-001	P6-W23-KP1	23	3	Composite area with circles	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Decompose composite figures	Demonstrate "Decompose composite figures" with correct measurement, calculation, notation and units.
MG-MEAS-002	P6-W23-KP2	23	3	Composite area with circles	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Add and subtract areas involving circles	Demonstrate "Add and subtract areas involving circles" with correct measurement, calculation, notation and units.
MG-MEAS-003	P6-W23-KP3	23	3	Composite area with circles	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find shaded area	Demonstrate "Find shaded area" with correct measurement, calculation, notation and units.
MG-MEAS-004	P6-W23-KP4	23	3	Composite area with circles	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Use consistent units and π	Demonstrate "Use consistent units and π " with correct measurement, calculation, notation and units.
MG-MEAS-005	P6-W24-KP1	24	3	Composite perimeter with curves	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Trace only the external boundary	Demonstrate "Trace only the external boundary" with correct measurement, calculation, notation and units.
MG-MEAS-006	P6-W24-KP2	24	3	Composite perimeter with curves	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Combine straight and curved lengths	Demonstrate "Combine straight and curved lengths" with correct measurement, calculation, notation and units.
MG-MEAS-007	P6-W24-KP3	24	3	Composite perimeter with curves	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Avoid including internal edges	Demonstrate "Avoid including internal edges" with correct measurement, calculation, notation and units.
MG-MEAS-008	P6-W24-KP4	24	3	Composite perimeter with curves	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Solve missing-length perimeter problems	Demonstrate "Solve missing-length perimeter problems" with correct measurement, calculation, notation and units.
MG-MEAS-009	P6-W25-KP1	25	3	Missing dimensions from volume	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find a missing cuboid dimension from its volume	Demonstrate "Find a missing cuboid dimension from its volume" with correct measurement, calculation, notation and units.
MG-MEAS-010	P6-W25-KP2	25	3	Missing dimensions from volume	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find the edge length of a cube from its volume	Demonstrate "Find the edge length of a cube from its volume" with correct measurement, calculation, notation and units.
MG-MEAS-011	P6-W25-KP3	25	3	Missing dimensions from volume	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find cuboid height from volume and base area	Demonstrate "Find cuboid height from volume and base area" with correct measurement, calculation, notation and units.
MG-MEAS-012	P6-W25-KP4	25	3	Missing dimensions from volume	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core	Find the area of a cuboid face from volume and one dimension	Demonstrate "Find the area of a cuboid face from volume and one dimension" with correct measurement, calculation, notation and units.
MG-MEAS-013	P6-W26-KP1	26	3	Volume and liquid-level applications	MG-MEAS	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core + Advanced Bridge	Relate base area height and volume	Demonstrate "Relate base area height and volume" with correct measurement, calculation, notation and units.

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MG-MEAS-014	P6-W26-KP2	26	3	Volume and liquid-level applications	MG-MEAS	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core + Advanced Bridge	Solve transfer between rectangular tanks	Demonstrate “Solve transfer between rectangular tanks” with correct measurement, calculation, notation and units.
MG-MEAS-015	P6-W26-KP3	26	3	Volume and liquid-level applications	MG-MEAS	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core + Advanced Bridge	Find change in water level	Demonstrate “Find change in water level” with correct measurement, calculation, notation and units.
MG-MEAS-016	P6-W26-KP4	26	3	Volume and liquid-level applications	MG-MEAS	Problem Solving & Mathematical Processes	Develop / Apply	MOE Core + Advanced Bridge	Apply unit conversions accurately	Demonstrate “Apply unit conversions accurately” with correct measurement, calculation, notation and units.
MG-MEAS-017	P6-W27-KP1	27	3	Composite figures mastery	MG-MEAS	Measurement & Geometry	Master / Transfer	Spiral Maintenance / Transfer	Find area of square rectangle triangle semicircle and quarter circle combinations	Demonstrate “Find area of square rectangle triangle semicircle and quarter circle combinations” with correct measurement, calculation, notation and units.
MG-MEAS-018	P6-W27-KP2	27	3	Composite figures mastery	MG-MEAS	Measurement & Geometry	Master / Transfer	Spiral Maintenance / Transfer	Find perimeter of composite figures	Demonstrate “Find perimeter of composite figures” with correct measurement, calculation, notation and units.
MG-MEAS-019	P6-W27-KP3	27	3	Composite figures mastery	MG-MEAS	Measurement & Geometry	Master / Transfer	Spiral Maintenance / Transfer	Use area subtraction efficiently	Demonstrate “Use area subtraction efficiently” with correct measurement, calculation, notation and units.
PS-REASON-002	P6-W27-KP4	27	3	Composite figures mastery	PS-REASON	Measurement & Geometry	Master / Transfer	Spiral Maintenance / Transfer	Solve reverse dimension problems	Demonstrate “Solve reverse dimension problems” by giving a correct conclusion and a mathematically valid reason.
ST-DATA-009	P6-W28-KP1	28	3	Data synthesis and numerical maintenance	ST-DATA	Statistics	Develop / Apply	Spiral Maintenance / Transfer	Interpret tables line graphs and pie charts	Demonstrate “Interpret tables line graphs and pie charts” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-010	P6-W28-KP2	28	3	Data synthesis and numerical maintenance	ST-DATA	Statistics	Develop / Apply	Spiral Maintenance / Transfer	Combine information from two representations	Demonstrate “Combine information from two representations” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-011	P6-W28-KP3	28	3	Data synthesis and numerical maintenance	ST-DATA	Statistics	Develop / Apply	Spiral Maintenance / Transfer	Use average ratio or percentage with data	Demonstrate “Use average ratio or percentage with data” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-012	P6-W28-KP4	28	3	Data synthesis and numerical maintenance	ST-DATA	Statistics	Develop / Apply	Spiral Maintenance / Transfer	Apply decimal operations in data contexts	Demonstrate “Apply decimal operations in data contexts” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-013	P6-W28-KP5	28	3	Data synthesis and numerical maintenance	ST-DATA	Statistics	Develop / Apply	Spiral Maintenance / Transfer	Evaluate a conclusion against evidence	Demonstrate “Evaluate a conclusion against evidence” by extracting or organising data accurately and supporting the answer with evidence.
PS-MODEL-003	P6-W29-KP1	29	3	Model-method mastery	PS-MODEL	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Select common-unit before-after or comparison models	Demonstrate “Select common-unit before-after or comparison models” using an accurate labelled model that leads to the answer.
NA-PCT-013	P6-W29-KP2	29	3	Model-method mastery	NA-PCT	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Represent changing ratios and percentages	Demonstrate “Represent changing ratios and percentages” using a correct proportional representation, calculation and contextual interpretation.
NA-ALG-011	P6-W29-KP3	29	3	Model-method mastery	NA-ALG	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Translate models into equations	Demonstrate “Translate models into equations” using a correct rule, expression or equation and verify the result where appropriate.
PS-COMM-001	P6-W29-KP4	29	3	Model-method mastery	PS-COMM	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use model labels to prevent logical errors	Demonstrate “Use model labels to prevent logical errors” through clear equations, labels, units and final statements.
MG-MEAS-020	P6-W30-KP1	30	3	Term 3 mastery and application	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Integrate circles volume data and proportional reasoning	Demonstrate “Integrate circles volume data and proportional reasoning” with correct measurement, calculation, notation and units.
PS-REASON-003	P6-W30-KP2	30	3	Term 3 mastery and application	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve a complex composite figure	Demonstrate “Solve a complex composite figure” by giving a correct conclusion and a mathematically valid reason.
MG-MEAS-021	P6-W30-KP3	30	3	Term 3 mastery and application	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve a tank-volume problem	Demonstrate “Solve a tank-volume problem” with correct measurement, calculation, notation and units.
MG-MEAS-022	P6-W30-KP4	30	3	Term 3 mastery and application	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Convert measurement units within multi-step problems	Demonstrate “Convert measurement units within multi-step problems” with correct measurement, calculation, notation and units.
ST-DATA-014	P6-W30-KP5	30	3	Term 3 mastery and application	ST-DATA	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret multi-source data	Demonstrate “Interpret multi-source data” by extracting or organising data accurately and supporting the answer with evidence.

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PS-HEUR-001	P6-W31-KP1	31	4	Heuristic: working backward and before-after	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Work backward from a final value	Demonstrate “Work backward from a final value” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-HEUR-002	P6-W31-KP2	31	4	Heuristic: working backward and before-after	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Track quantities before and after change	Demonstrate “Track quantities before and after change” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-HEUR-003	P6-W31-KP3	31	4	Heuristic: working backward and before-after	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Use inverse operations systematically	Demonstrate “Use inverse operations systematically” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-HEUR-004	P6-W31-KP4	31	4	Heuristic: working backward and before-after	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Validate the reconstructed starting condition	Demonstrate “Validate the reconstructed starting condition” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-HEUR-005	P6-W32-KP1	32	4	Heuristic: assumption and difference	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Make an assumption	Demonstrate “Make an assumption” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-AS-001	P6-W32-KP2	32	4	Heuristic: assumption and difference	NA-AS	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Calculate the resulting difference	Demonstrate “Calculate the resulting difference” accurately in one direct item and one age-appropriate contextual application.
NA-AS-002	P6-W32-KP3	32	4	Heuristic: assumption and difference	NA-AS	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Use unit difference to correct the assumption	Demonstrate “Use unit difference to correct the assumption” accurately in one direct item and one age-appropriate contextual application.
PS-HEUR-006	P6-W32-KP4	32	4	Heuristic: assumption and difference	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Apply to heads-and-legs or value problems	Demonstrate “Apply to heads-and-legs or value problems” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-ALG-012	P6-W33-KP1	33	4	Heuristic: patterns and systematic listing	NA-ALG	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Identify invariant and changing features	Demonstrate “Identify invariant and changing features” using a correct rule, expression or equation and verify the result where appropriate.
PS-HEUR-007	P6-W33-KP2	33	4	Heuristic: patterns and systematic listing	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Make a systematic list or table	Demonstrate “Make a systematic list or table” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-ALG-013	P6-W33-KP3	33	4	Heuristic: patterns and systematic listing	NA-ALG	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Generalise a pattern	Demonstrate “Generalise a pattern” using a correct rule, expression or equation and verify the result where appropriate.
PS-REASON-004	P6-W33-KP4	33	4	Heuristic: patterns and systematic listing	PS-REASON	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Prove completeness in age-appropriate language	Demonstrate “Prove completeness in age-appropriate language” by giving a correct conclusion and a mathematically valid reason.
NA-PCT-014	P6-W34-KP1	34	4	Non-routine proportional reasoning	NA-PCT	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Connect fraction ratio percentage and rate	Demonstrate “Connect fraction ratio percentage and rate” using a correct proportional representation, calculation and contextual interpretation.
PS-HEUR-008	P6-W34-KP2	34	4	Non-routine proportional reasoning	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Choose a common unit	Demonstrate “Choose a common unit” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-PROP-025	P6-W34-KP3	34	4	Non-routine proportional reasoning	NA-PROP	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Solve multi-stage proportional changes	Demonstrate “Solve multi-stage proportional changes” using a correct proportional representation, calculation and contextual interpretation.
NA-WN-002	P6-W34-KP4	34	4	Non-routine proportional reasoning	NA-WN	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Compare alternative efficient methods	Demonstrate “Compare alternative efficient methods” accurately in one direct item and one age-appropriate contextual application.
MG-MEAS-023	P6-W35-KP1	35	4	Non-routine geometry and measurement	MG-MEAS	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Extract necessary information from complex diagrams	Demonstrate “Extract necessary information from complex diagrams” with correct measurement, calculation, notation and units.
MG-MEAS-024	P6-W35-KP2	35	4	Non-routine geometry and measurement	MG-MEAS	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Combine angle area perimeter and volume	Demonstrate “Combine angle area perimeter and volume” with correct measurement, calculation, notation and units.
MG-MEAS-025	P6-W35-KP3	35	4	Non-routine geometry and measurement	MG-MEAS	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Use auxiliary reasoning without relying on scale	Demonstrate “Use auxiliary reasoning without relying on scale” with correct measurement, calculation, notation and units.
PS-COMM-002	P6-W35-KP4	35	4	Non-routine geometry and measurement	PS-COMM	Problem Solving & Mathematical Processes	Consolidate	Spiral Maintenance / Transfer	Present justified steps	Demonstrate “Present justified steps” through clear equations, labels, units and final statements.
NA-WN-003	P6-W36-KP1	36	4	PSLE Paper 1 readiness	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain whole-number operations	Demonstrate “Maintain whole-number operations” 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
PS-CHECK-007	P6-W36-KP2	36	4	PSLE Paper 1 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve arithmetic facts and formulae	Demonstrate “Retrieve arithmetic facts and formulae” by identifying or preventing an error and showing a valid check.
PS-CHECK-008	P6-W36-KP3	36	4	PSLE Paper 1 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve concise short-answer questions	Demonstrate “Solve concise short-answer questions” by identifying or preventing an error and showing a valid check.
PS-CHECK-009	P6-W36-KP4	36	4	PSLE Paper 1 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use estimation to eliminate errors	Demonstrate “Use estimation to eliminate errors” by identifying or preventing an error and showing a valid check.
PS-CHECK-010	P6-W36-KP5	36	4	PSLE Paper 1 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply non-calculator computation requirements accurately	Demonstrate “Apply non-calculator computation requirements accurately” by identifying or preventing an error and showing a valid check.
NA-FR-008	P6-W37-KP1	37	4	PSLE Paper 2 readiness	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain fraction operations	Demonstrate “Maintain fraction operations” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-DEC-003	P6-W37-KP2	37	4	PSLE Paper 2 readiness	NA-DEC	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain decimal operations	Demonstrate “Maintain decimal operations” using correct place value, alignment and stated accuracy where required.
PS-COMM-003	P6-W37-KP3	37	4	PSLE Paper 2 readiness	PS-COMM	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Organise structured multi-step solutions	Demonstrate “Organise structured multi-step solutions” through clear equations, labels, units and final statements.
NA-ALG-014	P6-W37-KP4	37	4	PSLE Paper 2 readiness	NA-ALG	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use diagrams models and equations	Demonstrate “Use diagrams models and equations” using a correct rule, expression or equation and verify the result where appropriate.
PS-CHECK-011	P6-W37-KP5	37	4	PSLE Paper 2 readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Check units rounding and final statements	Demonstrate “Check units rounding and final statements” by identifying or preventing an error and showing a valid check.
NA-FR-009	P6-W38-KP1	38	4	Full-syllabus diagnostic retrieval	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Maintain whole-number fraction and decimal fluency	Demonstrate “Maintain whole-number fraction and decimal fluency” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-PCT-015	P6-W38-KP2	38	4	Full-syllabus diagnostic retrieval	NA-PCT	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve percentage ratio and algebra methods	Demonstrate “Retrieve percentage ratio and algebra methods” using a correct proportional representation, calculation and contextual interpretation.
PS-CHECK-012	P6-W38-KP3	38	4	Full-syllabus diagnostic retrieval	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve geometry mensuration and formulae	Demonstrate “Retrieve geometry mensuration and formulae” by identifying or preventing an error and showing a valid check.
MG-MEAS-026	P6-W38-KP4	38	4	Full-syllabus diagnostic retrieval	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret graphs tables and measurement information	Demonstrate “Interpret graphs tables and measurement information” with correct measurement, calculation, notation and units.
PS-CHECK-013	P6-W38-KP5	38	4	Full-syllabus diagnostic retrieval	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Correct a mathematical misconception using valid working	Demonstrate “Correct a mathematical misconception using valid working” by identifying or preventing an error and showing a valid check.
PS-REASON-005	P6-W39-KP1	39	4	P6 integrated mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve balanced advanced problems across all strands	Demonstrate “Solve balanced advanced problems across all strands” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-006	P6-W39-KP2	39	4	P6 integrated mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Select representations independently	Demonstrate “Select representations independently” by giving a correct conclusion and a mathematically valid reason.
PS-COMM-004	P6-W39-KP3	39	4	P6 integrated mastery	PS-COMM	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Communicate rigorous reasoning	Demonstrate “Communicate rigorous reasoning” through clear equations, labels, units and final statements.
PS-CHECK-014	P6-W39-KP4	39	4	P6 integrated mastery	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use multiple checks for high-value questions	Demonstrate “Use multiple checks for high-value questions” by identifying or preventing an error and showing a valid check.
PS-REASON-007	P6-W40-KP1	40	4	P6 year-end mastery and secondary readiness	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Master PSLE core content and processes	Demonstrate “Master PSLE core content and processes” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-008	P6-W40-KP2	40	4	P6 year-end mastery and secondary readiness	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Transfer knowledge across unfamiliar contexts	Demonstrate “Transfer knowledge across unfamiliar contexts” by giving a correct conclusion and a mathematically valid reason.
NA-PROP-026	P6-W40-KP3	40	4	P6 year-end mastery and secondary readiness	NA-PROP	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use algebraic and proportional reasoning confidently	Demonstrate “Use algebraic and proportional reasoning confidently” using a correct proportional representation, calculation and contextual interpretation.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
ST-DATA-015	P6-W40-KP4	40	4	P6 year-end mastery and secondary readiness	ST-DATA	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret data and geometry critically	Demonstrate “Interpret data and geometry critically” by extracting or organising data accurately and supporting the answer with evidence.
PS-CHECK-015	P6-W40-KP5	40	4	P6 year-end mastery and secondary readiness	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Verify answers using inverse operations estimation or substitution	Demonstrate “Verify answers using inverse operations estimation or substitution” by identifying or preventing an error and showing a valid check.

Primary 6 Mathematics - Spiral Progression Map

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

Spiral Family	P6 Entry Point	Development / Revisit Weeks	End-of-P6 Expectation	MOE Role	P7 Bridge	Atomic KP Count	Status
NA-WN	W10: Term 1 mastery and transfer	W34, W36	Maintain accurate and efficient whole-number computation throughout full-syllabus PSLE problems.	Cumulative core	Secondary numerical fluency and problem solving	3	Complete
NA-AS	W32: Heuristic: assumption and difference	Embedded retrieval	Select, sequence and verify operations independently in complex multi-step contexts.	Cumulative core	Secondary arithmetic and algebraic problem solving	2	Complete
NA-MD	Embedded across weekly tasks	Embedded retrieval	Use multiplicative reasoning across fraction, ratio, percentage, rate, speed, average and volume.	Core + cumulative spiral	Secondary proportional and algebraic reasoning	0	Embedded only
NA-FR	W1: Fraction division	W2, W20, W37, W38	Master fraction division and integrate fractions with ratio, percentage, rate and models.	Core + cumulative spiral	Rational-number operations	9	Complete
NA-DEC	W10: Term 1 mastery and transfer	W20, W37	Maintain decimal operations, rounding and conversion accuracy across all strands.	Cumulative core	Decimal and algebraic fluency	3	Complete
NA-PCT	W7: Percentage: finding the whole	W8, W9, W10, W29, W34, W38	Solve original-value, increase/decrease and complex percentage contexts using models and proportional reasoning.	Core	Secondary percentage and proportional applications	15	Complete
NA-PROP	W3: Ratio notation and interpretation	W4, W5, W6, W10, W11, W12, W20, W34, W40	Master ratio and proportional integration; retrieve P5 rate and attempt speed only as labelled extension.	Ratio core + rate maintenance + speed extension	Secondary ratio, rate and linear relationships	26	Complete
NA-ALG	W13: Algebraic expressions	W14, W15, W29, W33, W37	Translate, simplify, evaluate and solve simple linear expressions/equations; connect algebra to models.	Core	Secondary algebra and functions	14	Complete
MG-MEAS	W23: Composite area with circles	W24, W25, W26, W27, W30, W35, W38	Integrate area, perimeter, volume, unit conversion and liquid-level reasoning in complex figures.	Core + cumulative spiral	Secondary mensuration	26	Complete
MG-GEO	W18: Angles in geometric figures	W19, W20, W21, W22	Use angle/quadrilateral properties and circle formulae in composite, not-to-scale diagrams.	Core	Secondary geometry and proof	17	Complete
ST-DATA	W16: Average	W17, W28, W30, W40	Solve average problems and synthesise tables, line graphs, pie charts, ratio and percentage evidence.	Core + Advanced Bridge	Secondary statistics and data literacy	15	Complete

Spiral Family	P6 Entry Point	Development / Revisit Weeks	End-of-P6 Expectation	MOE Role	P7 Bridge	Atomic KP Count	Status
PS-MODEL	W2: Fraction mastery problems	W9, W29	Select and translate common-unit, comparison and before-after models without prompting.	Mathematical processes	Independent mathematical modelling	3	Complete
PS-HEUR	W31: Heuristic: working backward and before-after	W32, W33, W34	Select working backward, assumption/difference, patterns, systematic lists and proportional heuristics.	Mathematical processes	Independent strategy selection	8	Complete
PS-REASON	W20: Term 2 mastery and reasoning	W27, W30, W33, W39, W40	Communicate complete, evidence-based chains of numerical, algebraic, geometric and data reasoning.	Mathematical processes	Secondary mathematical argument	8	Complete
PS-CHECK	W2: Fraction mastery problems	W6, W10, W12, W14, W15, W36, W37, W38, W39, W40	Use inverse operations, substitution, estimation, units, boundary tracing and diagnostics strategically.	Mathematical processes	Independent verification and self-correction	15	Complete
PS-COMM	W29: Model-method mastery	W35, W37, W39	Present concise PSLE solutions using equations, models, units, reasons and final statements.	Mathematical processes	Secondary written mathematical communication	4	Complete

Primary 6 Mathematics - MOE Coverage Audit

Cross-check of P6 syllabus content and mathematical processes against the 40-week allocation.

MOE Strand / Topic	Expected P6 Scope	Allocated Weeks	Progression Check	Assessment Readiness	Advanced Boundary	Status	Source
Fractions	Division involving proper fractions and whole numbers; multi-step fraction mastery	W1-W2, W10, W20, W28-W30, W34, W37-W40	P5 fraction multiplication -> P6 fraction division -> proportional integration	Computation, interpretation, remainder models, whole-from-part and inverse checks	No unsupported algebraic fraction manipulation	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Ratio	Notation, simplest/equivalent ratios, division in a ratio and changing-ratio problems	W3-W6, W10, W20, W28-W30, W34, W37-W40	Fraction language -> ratio structure -> before-after proportional change	Common units, scaling, part-part/part-whole, transfer and final-ratio verification	Three-part and changing-ratio tasks remain within PSLE-style contexts	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Percentage	Finding the whole, percentage increase/decrease and complex financial applications	W7-W10, W20, W28-W30, W34, W37-W40	P5 percentage part -> P6 original value and change	Unitary/bar models, original/final bases, discount/tax/interest and comparison	Repeated contexts are explicitly non-compound unless taught	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Rate Maintenance and Speed Extension	Retrieve P5 rate; introduce distance-speed-time only as a labelled extension	W11-W12, W20, W28-W30, W34, W37-W40	P5 rate core -> P6 ratio/percentage integration with optional speed enrichment	Rate retrieval and guided speed applications	Speed is not treated as P6 Standard MOE core in the 2021 syllabus	Advanced Bridge / Spiral Maintenance	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Algebra	Expressions, like terms, substitution and simple linear equations	W13-W15, W20, W29, W33-W40	P5 symbolic readiness -> P6 formal expressions and equations	Translate, simplify, evaluate, solve and verify by substitution	Linear forms only within primary syllabus boundaries	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Average and Data	Average/total/count/missing value plus synthesis of tables, line graphs and pie charts	W16-W17, W20, W28, W30, W38-W40	P5 average readiness -> P6 core average and multi-source evidence	Balance interpretation, changed data, combined displays and evidence evaluation	Changed/combined averages remain clearly labelled advanced extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Angles and Quadrilaterals	Triangle/quadrilateral angle properties, parallel-line relationships and composite angle figures	W18-W20, W27, W30, W35, W39-W40	P5 properties -> P6 multi-step composite geometry	Unknown angles, property selection, markings and complete reasons	Diagrams are treated as not necessarily drawn to scale	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Circles and Composite Figures	Circle formulae, semicircles, quarter circles, shaded areas and curved perimeters	W21-W24, W27, W30, W35, W39-W40	P5 triangle/quadrilateral mensuration -> P6 circles and composite figures	Radius/diameter, circumference/area, arcs, boundary tracing and missing lengths	Use consistent units and the prescribed value of pi	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Volume and Liquid Levels	P6 core reverse volume dimensions, followed by tank-transfer and liquid-level applications	W25-W27, W30, W35, W39-W40	P5 volume formulae -> P6 reverse dimensions -> transfer applications	Missing dimensions, base area-height-volume links, unit conversion and reverse reasoning	Tank-transfer and changing-level work is an application bridge beyond the explicitly listed reverse-dimension outcomes	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Cumulative Number and Measurement Maintenance	Whole numbers, decimals, arithmetic facts, graphs, tables, units and formulas from P1-P5	W10, W20, W28, W30, W36-W40	Distributed retrieval -> diagnostic repair -> full-syllabus mastery	Fluency, operation choice, units, representation and misconception correction	Maintenance never introduces untaught content	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Models, Heuristics and PSLE Readiness	Common-unit/before-after models; working backward; assumption/difference; patterns; systematic listing	W2, W6, W10, W20, W29-W40	Guided methods -> independent selection -> timed PSLE transfer	Model labels, strategy choice, logical sequence, checking and communication	Advanced tasks remain within PSLE-style primary problem solving	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	P6 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.