

PSLE Checkpoint Primary 4 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	165
Pure MOE Core Weeks	27
Spiral / Transfer Weeks	7
KP Range per Week	4-5



Curriculum Design Rules

1	MOE foundation	All required P4 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 P4 syllabus scope against the weekly allocation.
Sources & Notes	Records source scope, codes and curriculum interpretation rules.

Primary 4 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 100 000	1. Read and write numbers to 100 000 2. Represent place values to ten-thousands 3. Compare and order large numbers 4. Continue large-number sequences	Retrieve high-value P3 prerequisites	Concept recognition, procedural accuracy, application and explanation	Develop numbers to 100 000 through accurate representations, explanation, strategy choice and one unfamiliar application.
1	2	2	4	Number & Algebra	NA-WN	Develop	MOE Core	Rounding and estimation	1. Round to nearest 10 100 and 1000 2. Use ≈ correctly 3. Estimate sums differences products and quotients 4. Judge reasonableness using bounds	Retrieve: Numbers to 100 000; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop rounding and estimation through accurate representations, explanation, strategy choice and one unfamiliar application.
1	3	3	4	Number & Algebra	NA-WN	Develop	MOE Core	Factors	1. List factor pairs systematically 2. Determine whether a 1-digit number is a factor 3. Find common factors 4. Use divisibility patterns as an advanced aid	Retrieve: Rounding and estimation; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop factors through accurate representations, explanation, strategy choice and one unfamiliar application.
1	4	4	4	Number & Algebra	NA-WN	Develop	MOE Core	Multiples	1. Generate multiples 2. Determine whether a number is a multiple 3. Find common multiples 4. Relate factors and multiples	Retrieve: Factors; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop multiples through accurate representations, explanation, strategy choice and one unfamiliar application.
1	5	5	4	Number & Algebra	NA-MD	Develop	MOE Core	Multiplication algorithms	1. Multiply up to four digits by one digit 2. Multiply up to three digits by two digits 3. Estimate products 4. Analyse partial products	Retrieve: Multiples; 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	6	6	4	Number & Algebra	NA-MD	Develop	MOE Core	Division algorithms	1. Divide up to four digits by one digit 2. Interpret remainders in context 3. Estimate quotients 4. Check with multiplication	Retrieve: Multiplication algorithms; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop division algorithms through accurate representations, explanation, strategy choice and one unfamiliar application.
1	7	7	4	Problem Solving & Mathematical Processes	NA-AS	Develop	MOE Core	Four-operation word problems	1. Solve multi-step whole-number problems 2. Apply order from context 3. Use bar models and equations 4. Evaluate answer reasonableness	Retrieve: Division algorithms; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop four-operation word problems through accurate representations, explanation, strategy choice and one unfamiliar application.
1	8	8	4	Statistics	ST-DATA	Develop	MOE Core	Tables and line graphs	1. Read tables and line graphs 2. Interpret scales and intervals 3. Find changes and differences 4. Connect table values to plotted points	Retrieve: Four-operation word problems; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop tables and line graphs through accurate representations, explanation, strategy choice and one unfamiliar application.
1	9	9	4	Statistics	ST-DATA	Develop	MOE Core + Advanced Bridge	Data trends and misleading scales	1. Describe increase decrease and fluctuation 2. Compare rates of change informally 3. Identify unsupported claims 4. Recognise how a scale can affect visual impression	Retrieve: Tables and line graphs; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop data trends and misleading scales 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 large numbers factors multiples and algorithms 2. Solve multi-step problems 3. Interpret tables and line graphs 4. Use estimation throughout 5. Complete one non-routine task	Retrieve: Data trends and misleading scales; 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-FR	Develop	MOE Core	Mixed numbers and improper fractions	1. Relate mixed numbers and improper fractions 2. Convert between forms 3. Locate mixed numbers on number lines 4. Compare values greater than one	Retrieve: Term 1 mastery and transfer; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop mixed numbers and improper fractions through accurate representations, explanation, strategy choice and one unfamiliar application.

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2	2	12	4	Number & Algebra	NA-FR	Develop	MOE Core	Fraction of a set	1. Find a fraction of a set 2. Find the whole from a unit fraction in guided cases 3. Use bar models for fraction-of-set problems 4. Solve multi-step fraction contexts	Retrieve: Mixed numbers and improper fractions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop fraction of a set through accurate representations, explanation, strategy choice and one unfamiliar application.
2	3	13	4	Number & Algebra	NA-FR	Develop	MOE Core	Adding and subtracting unlike fractions	1. Find common denominators within syllabus limits 2. Add unlike fractions 3. Subtract unlike fractions 4. Simplify final answers	Retrieve: Fraction of a set; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop adding and subtracting unlike fractions through accurate representations, explanation, strategy choice and one unfamiliar application.
2	4	14	4	Number & Algebra	NA-AS	Develop	Advanced Bridge / Extension	Mixed-number addition and subtraction extension	1. Rename between wholes and fractions 2. Add mixed numbers in guided cases 3. Subtract mixed numbers in guided cases 4. Check using estimation	Retrieve: Adding and subtracting unlike fractions; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop mixed-number addition and subtraction extension through accurate representations, explanation, strategy choice and one unfamiliar application.
2	5	15	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Naming, measuring and drawing angles	1. Name angles using notation such as $\angle ABC$ and $\angle a$ 2. Measure angles accurately with a protractor 3. Draw an angle of a given size 4. Estimate an angle before measuring	Retrieve: Mixed-number addition and subtraction extension; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop angles in degrees through accurate representations, explanation, strategy choice and one unfamiliar application.
2	6	16	4	Measurement & Geometry	MG-GEO	Extend	Advanced Bridge / Extension	Angle facts readiness: line and point	1. Explore angles on a straight line 2. Explore angles at a point 3. Find unknown angles in guided diagrams 4. State a simple reason for an angle result	Retrieve: Angles in degrees; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop angles on a line and at a point through accurate representations, explanation, strategy choice and one unfamiliar application.
2	7	17	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Rectangles and squares	1. Apply properties of rectangles and squares 2. Use perpendicular and parallel sides 3. Find unknown angles 4. Find missing lengths from perimeter	Retrieve: Angles on a line and at a point; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop rectangles and squares through accurate representations, explanation, strategy choice and one unfamiliar application.
2	8	18	4	Measurement & Geometry	MG-MEAS	Develop	MOE Core	Area and perimeter	1. Find area and perimeter of rectangles and squares 2. Find missing dimensions 3. Solve composite rectilinear figures 4. Distinguish equal area from equal perimeter	Retrieve: Rectangles and squares; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop area and perimeter through accurate representations, explanation, strategy choice and one unfamiliar application.
2	9	19	4	Measurement & Geometry	MG-GEO	Develop	MOE Core	Symmetry	1. Identify lines of symmetry 2. Complete symmetric figures 3. Describe reflection on square grids 4. Reason about symmetry properties	Retrieve: Area and perimeter; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop symmetry 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 fractions angles quadrilaterals and symmetry 2. Solve composite area-perimeter problems 3. Explain angle reasons 4. Use a model for a fraction problem 5. Correct misconceptions	Retrieve: Symmetry; 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-DEC	Introduce	MOE Core	Decimals to three places	1. Represent tenths hundredths and thousandths 2. Read and write decimals 3. Compare and order decimals 4. Locate decimals on number lines	Retrieve: Term 2 mastery and reasoning; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop decimals to three places through accurate representations, explanation, strategy choice and one unfamiliar application.
3	2	22	4	Number & Algebra	NA-FR	Develop / Apply	MOE Core	Fractions and decimals	1. Express decimals as fractions 2. Express eligible fractions as decimals 3. Use place value to explain equivalence 4. Compare values across forms	Retrieve: Decimals to three places; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop fractions and decimals through accurate representations, explanation, strategy choice and one unfamiliar application.
3	3	23	4	Number & Algebra	NA-DEC	Develop / Apply	MOE Core	Rounding decimals	1. Round to nearest whole number 2. Round to one decimal place 3. Round to two decimal places 4. Use rounded values for estimation	Retrieve: Fractions and decimals; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop rounding decimals through accurate representations, explanation, strategy choice and one unfamiliar application.

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3	4	24	4	Number & Algebra	NA-DEC	Develop / Apply	MOE Core	Adding and subtracting decimals	1. Align decimal place values 2. Add decimals up to two places 3. Subtract decimals up to two places 4. Estimate and check decimal answers	Retrieve: Rounding decimals; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop adding and subtracting decimals through accurate representations, explanation, strategy choice and one unfamiliar application.
3	5	25	4	Number & Algebra	NA-DEC	Develop / Apply	MOE Core	Multiplying and dividing decimals	1. Multiply decimals by a one-digit whole number 2. Divide decimals by a one-digit whole number 3. Interpret decimal quotients 4. Round answers to specified accuracy	Retrieve: Adding and subtracting decimals; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop multiplying and dividing decimals through accurate representations, explanation, strategy choice and one unfamiliar application.
3	6	26	4	Number & Algebra	NA-DEC	Develop / Apply	MOE Core	Division with decimal quotient	1. Divide whole numbers to obtain decimal quotients 2. Use place-value continuation 3. Check with multiplication 4. Interpret quotients in measurement contexts	Retrieve: Multiplying and dividing decimals; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop division with decimal quotient through accurate representations, explanation, strategy choice and one unfamiliar application.
3	7	27	4	Statistics	ST-DATA	Develop / Apply	MOE Core	Pie charts	1. Read data from a labelled pie chart 2. Interpret sectors as parts of a whole 3. Compare categories using sector size and values 4. Solve one-step and two-step pie-chart questions	Retrieve: Division with decimal quotient; cumulative fluency from earlier terms.	Data reading, calculation, interpretation and evidence	Develop pie charts introduction (advanced) through accurate representations, explanation, strategy choice and one unfamiliar application.
3	8	28	4	Measurement & Geometry	MG-GEO	Develop / Apply	MOE Core	2D representations and nets of solids	1. Identify 2D representations of cubes cuboids cones cylinders prisms and pyramids 2. Draw 2D representations of cubes cuboids prisms and pyramids 3. Identify nets of cubes cuboids prisms and pyramids 4. Identify the solid formed by a given net	Retrieve: Pie charts introduction (advanced); cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop nets of solids through accurate representations, explanation, strategy choice and one unfamiliar application.
3	9	29	4	Measurement & Geometry	MG-GEO	Extend	Advanced Bridge / Extension	Spatial visualisation extension	1. Identify front side and top views 2. Mentally fold simple nets 3. Count cubes in simple structures 4. Infer hidden cubes in supported diagrams	Retrieve: Nets of solids; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop spatial visualisation 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 decimals data and nets 2. Solve decimal word problems 3. Interpret a simple pie chart 4. Explain a spatial argument 5. Complete a multi-topic challenge	Retrieve: Spatial visualisation; 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	5	Number & Algebra	NA-FR	Consolidate	Spiral Maintenance / Transfer	Four operations of whole numbers and fraction retrieval	1. Add and subtract numbers to 100 000 accurately 2. Multiply and divide within P4 syllabus limits 3. Select operations in multi-step contexts 4. Use factors to simplify fractions 5. Estimate and verify numerical answers	Retrieve: Term 3 mastery and application; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop four operations of whole numbers and fraction retrieval through accurate representations, explanation, strategy choice and one unfamiliar application.
4	2	32	4	Problem Solving & Mathematical Processes	NA-DEC	Consolidate	MOE Core	Decimal applications	1. Solve money and measurement decimal problems 2. Handle multi-step decimal contexts 3. Select a sensible degree of accuracy 4. Check through inverse operations	Retrieve: Four operations of whole numbers and fraction retrieval; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop decimal applications through accurate representations, explanation, strategy choice and one unfamiliar application.
4	3	33	4	Measurement & Geometry	MG-MEAS	Develop / Apply	MOE Core + Advanced Bridge	Composite area and perimeter	1. Decompose composite figures made of rectangles and squares 2. Find missing side lengths in composite figures 3. Find area and perimeter using addition or subtraction 4. Compare alternative decompositions as an extension	Retrieve: Decimal applications; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop composite area and perimeter challenge through accurate representations, explanation, strategy choice and one unfamiliar application.
4	4	34	4	Measurement & Geometry	PS-REASON	Extend	Advanced Bridge / Extension	Geometry reasoning challenge	1. Use multiple angle facts in one figure 2. Infer properties from markings 3. Distinguish necessary from visual information 4. Explain each step with a reason	Retrieve: Composite area and perimeter challenge; cumulative fluency from earlier terms.	Concept recognition, procedural accuracy, application and explanation	Develop geometry reasoning challenge through accurate representations, explanation, strategy choice and one unfamiliar application.
4	5	35	4	Statistics	ST-DATA	Consolidate	MOE Core	Data investigation	1. Collect paired data over time 2. Choose table or line graph 3. Construct a line graph 4. State trends and limitations	Retrieve: Geometry reasoning challenge; 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	Consolidate	MOE Core	Model method and units	1. Model multiplicative comparison 2. Model fraction-of-set situations 3. Track units across multiple steps 4. Translate models into equations	Retrieve: Data investigation; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop model method and units through accurate representations, explanation, strategy choice and one unfamiliar application.
4	7	37	4	Problem Solving & Mathematical Processes	PS-HEUR	Consolidate	MOE Core	Heuristics development	1. Make a systematic table 2. Use guess check and improve 3. Work backward from a final state 4. Use before-after relationships	Retrieve: Model method and units; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop heuristics development through accurate representations, explanation, strategy choice and one unfamiliar application.
4	8	38	4	Problem Solving & Mathematical Processes	PS-REASON	Master / Transfer	Spiral Maintenance / Transfer	Integrated assessment practice	1. Solve short and structured problems 2. Combine whole numbers fractions decimals and geometry 3. Interpret visual and data information 4. Review errors by knowledge point	Retrieve: Heuristics development; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop integrated assessment practice 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	P4 cumulative mastery	1. Retrieve all P4 content independently 2. Solve advanced multi-step problems 3. Select efficient representations 4. Verify exact and estimated answers	Retrieve: Integrated assessment practice; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p4 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	P4 year-end mastery and P5 readiness	1. Master numbers to 100 000 factors multiples and operations 2. Master fractions and decimals 3. Apply angles area perimeter symmetry nets and data 4. Use multi-step models and heuristics 5. Transfer to unfamiliar problems	Retrieve: P4 cumulative mastery; cumulative fluency from earlier terms.	Structured problem solving, method choice, reasoning and checking	Develop p4 year-end mastery and p5 readiness through accurate representations, explanation, strategy choice and one unfamiliar application.

Primary 4 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	P4-W01-KP1	1	1	Numbers to 100 000	NA-WN	Number & Algebra	Develop	MOE Core	Read and write numbers to 100 000	Demonstrate “Read and write numbers to 100 000” accurately in one direct item and one age-appropriate contextual application.
NA-WN-002	P4-W01-KP2	1	1	Numbers to 100 000	NA-WN	Number & Algebra	Develop	MOE Core	Represent place values to ten-thousands	Demonstrate “Represent place values to ten-thousands” accurately in one direct item and one age-appropriate contextual application.
NA-WN-003	P4-W01-KP3	1	1	Numbers to 100 000	NA-WN	Number & Algebra	Develop	MOE Core	Compare and order large numbers	Demonstrate “Compare and order large numbers” accurately in one direct item and one age-appropriate contextual application.
NA-WN-004	P4-W01-KP4	1	1	Numbers to 100 000	NA-WN	Number & Algebra	Develop	MOE Core	Continue large-number sequences	Demonstrate “Continue large-number sequences” accurately in one direct item and one age-appropriate contextual application.
NA-WN-005	P4-W02-KP1	2	1	Rounding and estimation	NA-WN	Number & Algebra	Develop	MOE Core	Round to nearest 10 100 and 1000	Demonstrate “Round to nearest 10 100 and 1000” accurately in one direct item and one age-appropriate contextual application.
NA-WN-006	P4-W02-KP2	2	1	Rounding and estimation	NA-WN	Number & Algebra	Develop	MOE Core	Use ≈ correctly	Demonstrate “Use ≈ correctly” accurately in one direct item and one age-appropriate contextual application.
NA-WN-007	P4-W02-KP3	2	1	Rounding and estimation	NA-WN	Number & Algebra	Develop	MOE Core	Estimate sums differences products and quotients	Demonstrate “Estimate sums differences products and quotients” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-001	P4-W02-KP4	2	1	Rounding and estimation	PS-CHECK	Number & Algebra	Develop	MOE Core	Judge reasonableness using bounds	Demonstrate “Judge reasonableness using bounds” by identifying or preventing an error and showing a valid check.
NA-WN-008	P4-W03-KP1	3	1	Factors	NA-WN	Number & Algebra	Develop	MOE Core	List factor pairs systematically	Demonstrate “List factor pairs systematically” accurately in one direct item and one age-appropriate contextual application.
NA-WN-009	P4-W03-KP2	3	1	Factors	NA-WN	Number & Algebra	Develop	MOE Core	Determine whether a 1-digit number is a factor	Demonstrate “Determine whether a 1-digit number is a factor” accurately in one direct item and one age-appropriate contextual application.
NA-WN-010	P4-W03-KP3	3	1	Factors	NA-WN	Number & Algebra	Develop	MOE Core	Find common factors	Demonstrate “Find common factors” accurately in one direct item and one age-appropriate contextual application.
NA-WN-011	P4-W03-KP4	3	1	Factors	NA-WN	Number & Algebra	Develop	Advanced Bridge / Extension	Use divisibility patterns as an advanced aid	Demonstrate “Use divisibility patterns as an advanced aid” accurately in one direct item and one age-appropriate contextual application.
NA-WN-012	P4-W04-KP1	4	1	Multiples	NA-WN	Number & Algebra	Develop	MOE Core	Generate multiples	Demonstrate “Generate multiples” accurately in one direct item and one age-appropriate contextual application.
NA-WN-013	P4-W04-KP2	4	1	Multiples	NA-WN	Number & Algebra	Develop	MOE Core	Determine whether a number is a multiple	Demonstrate “Determine whether a number is a multiple” accurately in one direct item and one age-appropriate contextual application.
NA-WN-014	P4-W04-KP3	4	1	Multiples	NA-WN	Number & Algebra	Develop	MOE Core	Find common multiples	Demonstrate “Find common multiples” accurately in one direct item and one age-appropriate contextual application.
NA-WN-015	P4-W04-KP4	4	1	Multiples	NA-WN	Number & Algebra	Develop	MOE Core	Relate factors and multiples	Demonstrate “Relate factors and multiples” accurately in one direct item and one age-appropriate contextual application.
NA-MD-001	P4-W05-KP1	5	1	Multiplication algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Multiply up to four digits by one digit	Demonstrate “Multiply up to four digits by one digit” accurately in one direct item and one age-appropriate contextual application.
NA-MD-002	P4-W05-KP2	5	1	Multiplication algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Multiply up to three digits by two digits	Demonstrate “Multiply up to three digits by two digits” accurately in one direct item and one age-appropriate contextual application.
NA-MD-003	P4-W05-KP3	5	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.

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NA-MD-004	P4-W05-KP4	5	1	Multiplication algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Analyse partial products	Demonstrate “Analyse partial products” accurately in one direct item and one age-appropriate contextual application.
NA-MD-005	P4-W06-KP1	6	1	Division algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Divide up to four digits by one digit	Demonstrate “Divide up to four digits by one digit” accurately in one direct item and one age-appropriate contextual application.
NA-MD-006	P4-W06-KP2	6	1	Division algorithms	NA-MD	Number & Algebra	Develop	MOE Core	Interpret remainders in context	Demonstrate “Interpret remainders in context” accurately in one direct item and one age-appropriate contextual application.
NA-MD-007	P4-W06-KP3	6	1	Division algorithms	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-002	P4-W06-KP4	6	1	Division algorithms	PS-CHECK	Number & Algebra	Develop	MOE Core	Check with multiplication	Demonstrate “Check with multiplication” by identifying or preventing an error and showing a valid check.
NA-AS-001	P4-W07-KP1	7	1	Four-operation word problems	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Solve multi-step whole-number problems	Demonstrate “Solve multi-step whole-number problems” accurately in one direct item and one age-appropriate contextual application.
NA-AS-002	P4-W07-KP2	7	1	Four-operation word problems	NA-AS	Problem Solving & Mathematical Processes	Develop	MOE Core	Apply order from context	Demonstrate “Apply order from context” accurately in one direct item and one age-appropriate contextual application.
PS-MODEL-001	P4-W07-KP3	7	1	Four-operation word problems	PS-MODEL	Problem Solving & Mathematical Processes	Develop	MOE Core	Use bar models and equations	Demonstrate “Use bar models and equations” using an accurate labelled model that leads to the answer.
PS-CHECK-003	P4-W07-KP4	7	1	Four-operation word problems	PS-CHECK	Problem Solving & Mathematical Processes	Develop	MOE Core	Evaluate answer reasonableness	Demonstrate “Evaluate answer reasonableness” by identifying or preventing an error and showing a valid check.
ST-DATA-001	P4-W08-KP1	8	1	Tables and line graphs	ST-DATA	Statistics	Develop	MOE Core	Read tables and line graphs	Demonstrate “Read tables and line graphs” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-002	P4-W08-KP2	8	1	Tables and line graphs	ST-DATA	Statistics	Develop	MOE Core	Interpret scales and intervals	Demonstrate “Interpret scales and intervals” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-003	P4-W08-KP3	8	1	Tables and line graphs	ST-DATA	Statistics	Develop	MOE Core	Find changes and differences	Demonstrate “Find changes and differences” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-004	P4-W08-KP4	8	1	Tables and line graphs	ST-DATA	Statistics	Develop	MOE Core	Connect table values to plotted points	Demonstrate “Connect table values to plotted points” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-005	P4-W09-KP1	9	1	Data trends and misleading scales	ST-DATA	Statistics	Develop	MOE Core + Advanced Bridge	Describe increase decrease and fluctuation	Demonstrate “Describe increase decrease and fluctuation” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-006	P4-W09-KP2	9	1	Data trends and misleading scales	ST-DATA	Statistics	Develop	MOE Core + Advanced Bridge	Compare rates of change informally	Demonstrate “Compare rates of change informally” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-007	P4-W09-KP3	9	1	Data trends and misleading scales	ST-DATA	Statistics	Develop	MOE Core + Advanced Bridge	Identify unsupported claims	Demonstrate “Identify unsupported claims” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-008	P4-W09-KP4	9	1	Data trends and misleading scales	ST-DATA	Statistics	Develop	Advanced Bridge / Extension	Recognise how a scale can affect visual impression	Demonstrate “Recognise how a scale can affect visual impression” by extracting or organising data accurately and supporting the answer with evidence.
NA-WN-016	P4-W10-KP1	10	1	Term 1 mastery and transfer	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve large numbers factors multiples and algorithms	Demonstrate “Retrieve large numbers factors multiples and algorithms” accurately in one direct item and one age-appropriate contextual application.
PS-REASON-001	P4-W10-KP2	10	1	Term 1 mastery and transfer	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve multi-step problems	Demonstrate “Solve multi-step problems” by giving a correct conclusion and a mathematically valid reason.
ST-DATA-009	P4-W10-KP3	10	1	Term 1 mastery and transfer	ST-DATA	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret tables and line graphs	Demonstrate “Interpret tables and line graphs” by extracting or organising data accurately and supporting the answer with evidence.
PS-REASON-002	P4-W10-KP4	10	1	Term 1 mastery and transfer	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use estimation throughout	Demonstrate “Use estimation throughout” 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
PS-HEUR-001	P4-W10-KP5	10	1	Term 1 mastery and transfer	PS-HEUR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Complete one non-routine task	Demonstrate “Complete one non-routine task” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
NA-FR-001	P4-W11-KP1	11	2	Mixed numbers and improper fractions	NA-FR	Number & Algebra	Develop	MOE Core	Relate mixed numbers and improper fractions	Demonstrate “Relate mixed numbers and improper fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-002	P4-W11-KP2	11	2	Mixed numbers and improper fractions	NA-FR	Number & Algebra	Develop	MOE Core	Convert between forms	Demonstrate “Convert between forms” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-003	P4-W11-KP3	11	2	Mixed numbers and improper fractions	NA-FR	Number & Algebra	Develop	MOE Core	Locate mixed numbers on number lines	Demonstrate “Locate mixed numbers on number lines” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-004	P4-W11-KP4	11	2	Mixed numbers and improper fractions	NA-FR	Number & Algebra	Develop	MOE Core	Compare values greater than one	Demonstrate “Compare values greater than one” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-005	P4-W12-KP1	12	2	Fraction of a set	NA-FR	Number & Algebra	Develop	MOE Core	Find a fraction of a set	Demonstrate “Find a fraction of a set” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-006	P4-W12-KP2	12	2	Fraction of a set	NA-FR	Number & Algebra	Develop	Advanced Bridge / Extension	Find the whole from a unit fraction in guided cases	Demonstrate “Find the whole from a unit fraction in guided cases” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-MODEL-002	P4-W12-KP3	12	2	Fraction of a set	PS-MODEL	Number & Algebra	Develop	MOE Core	Use bar models for fraction-of-set problems	Demonstrate “Use bar models for fraction-of-set problems” using an accurate labelled model that leads to the answer.
NA-FR-007	P4-W12-KP4	12	2	Fraction of a set	NA-FR	Number & Algebra	Develop	MOE Core	Solve multi-step fraction contexts	Demonstrate “Solve multi-step fraction contexts” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-008	P4-W13-KP1	13	2	Adding and subtracting unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Find common denominators within syllabus limits	Demonstrate “Find common denominators within syllabus limits” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-009	P4-W13-KP2	13	2	Adding and subtracting unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Add unlike fractions	Demonstrate “Add unlike fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-010	P4-W13-KP3	13	2	Adding and subtracting unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Subtract unlike fractions	Demonstrate “Subtract unlike fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-011	P4-W13-KP4	13	2	Adding and subtracting unlike fractions	NA-FR	Number & Algebra	Develop	MOE Core	Simplify final answers	Demonstrate “Simplify final answers” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-AS-003	P4-W14-KP1	14	2	Mixed-number addition and subtraction extension	NA-AS	Number & Algebra	Develop	Advanced Bridge / Extension	Rename between wholes and fractions	Demonstrate “Rename between wholes and fractions” accurately in one direct item and one age-appropriate contextual application.
NA-AS-004	P4-W14-KP2	14	2	Mixed-number addition and subtraction extension	NA-AS	Number & Algebra	Develop	Advanced Bridge / Extension	Add mixed numbers in guided cases	Demonstrate “Add mixed numbers in guided cases” accurately in one direct item and one age-appropriate contextual application.
NA-AS-005	P4-W14-KP3	14	2	Mixed-number addition and subtraction extension	NA-AS	Number & Algebra	Develop	Advanced Bridge / Extension	Subtract mixed numbers in guided cases	Demonstrate “Subtract mixed numbers in guided cases” accurately in one direct item and one age-appropriate contextual application.
PS-CHECK-004	P4-W14-KP4	14	2	Mixed-number addition and subtraction extension	PS-CHECK	Number & Algebra	Develop	Advanced Bridge / Extension	Check using estimation	Demonstrate “Check using estimation” by identifying or preventing an error and showing a valid check.
MG-GEO-001	P4-W15-KP1	15	2	Naming, measuring and drawing angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Name angles using notation such as $\angle ABC$ and $\angle a$	Demonstrate “Name angles using notation such as $\angle ABC$ and $\angle a$ ” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-002	P4-W15-KP2	15	2	Naming, measuring and drawing angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Measure angles accurately with a protractor	Demonstrate “Measure angles accurately with a protractor” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-003	P4-W15-KP3	15	2	Naming, measuring and drawing angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Draw an angle of a given size	Demonstrate “Draw an angle of a given size” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-004	P4-W15-KP4	15	2	Naming, measuring and drawing angles	MG-GEO	Measurement & Geometry	Develop	MOE Core	Estimate an angle before measuring	Demonstrate “Estimate an angle before measuring” using an accurate diagram, stated property or geometric construction as appropriate.

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MG-GEO-005	P4-W16-KP1	16	2	Angle facts readiness: line and point	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Explore angles on a straight line	Demonstrate “Explore angles on a straight line” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-006	P4-W16-KP2	16	2	Angle facts readiness: line and point	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Explore angles at a point	Demonstrate “Explore angles at a point” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-007	P4-W16-KP3	16	2	Angle facts readiness: line and point	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Find unknown angles in guided diagrams	Demonstrate “Find unknown angles in guided diagrams” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-008	P4-W16-KP4	16	2	Angle facts readiness: line and point	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	State a simple reason for an angle result	Demonstrate “State a simple reason for an angle result” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-009	P4-W17-KP1	17	2	Rectangles and squares	MG-GEO	Measurement & Geometry	Develop	MOE Core	Apply properties of rectangles and squares	Demonstrate “Apply properties of rectangles and squares” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-010	P4-W17-KP2	17	2	Rectangles and squares	MG-GEO	Measurement & Geometry	Develop	MOE Core	Use perpendicular and parallel sides	Demonstrate “Use perpendicular and parallel sides” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-011	P4-W17-KP3	17	2	Rectangles and squares	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-012	P4-W17-KP4	17	2	Rectangles and squares	MG-GEO	Measurement & Geometry	Develop	MOE Core	Find missing lengths from perimeter	Demonstrate “Find missing lengths from perimeter” using an accurate diagram, stated property or geometric construction as appropriate.
MG-MEAS-001	P4-W18-KP1	18	2	Area and perimeter	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Find area and perimeter of rectangles and squares	Demonstrate “Find area and perimeter of rectangles and squares” with correct measurement, calculation, notation and units.
MG-MEAS-002	P4-W18-KP2	18	2	Area and perimeter	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Find missing dimensions	Demonstrate “Find missing dimensions” with correct measurement, calculation, notation and units.
MG-MEAS-003	P4-W18-KP3	18	2	Area and perimeter	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Solve composite rectilinear figures	Demonstrate “Solve composite rectilinear figures” with correct measurement, calculation, notation and units.
MG-MEAS-004	P4-W18-KP4	18	2	Area and perimeter	MG-MEAS	Measurement & Geometry	Develop	MOE Core	Distinguish equal area from equal perimeter	Demonstrate “Distinguish equal area from equal perimeter” with correct measurement, calculation, notation and units.
MG-GEO-013	P4-W19-KP1	19	2	Symmetry	MG-GEO	Measurement & Geometry	Develop	MOE Core	Identify lines of symmetry	Demonstrate “Identify lines of symmetry” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-014	P4-W19-KP2	19	2	Symmetry	MG-GEO	Measurement & Geometry	Develop	MOE Core	Complete symmetric figures	Demonstrate “Complete symmetric figures” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-015	P4-W19-KP3	19	2	Symmetry	MG-GEO	Measurement & Geometry	Develop	MOE Core	Describe reflection on square grids	Demonstrate “Describe reflection on square grids” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-016	P4-W19-KP4	19	2	Symmetry	MG-GEO	Measurement & Geometry	Develop	MOE Core	Reason about symmetry properties	Demonstrate “Reason about symmetry properties” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-017	P4-W20-KP1	20	2	Term 2 mastery and reasoning	MG-GEO	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve fractions angles quadrilaterals and symmetry	Demonstrate “Retrieve fractions angles quadrilaterals and symmetry” using an accurate diagram, stated property or geometric construction as appropriate.
MG-MEAS-005	P4-W20-KP2	20	2	Term 2 mastery and reasoning	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve composite area-perimeter problems	Demonstrate “Solve composite area-perimeter problems” with correct measurement, calculation, notation and units.
PS-REASON-003	P4-W20-KP3	20	2	Term 2 mastery and reasoning	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Explain angle reasons	Demonstrate “Explain angle reasons” by giving a correct conclusion and a mathematically valid reason.
NA-FR-012	P4-W20-KP4	20	2	Term 2 mastery and reasoning	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use a model for a fraction problem	Demonstrate “Use a model for a fraction problem” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-REASON-004	P4-W20-KP5	20	2	Term 2 mastery and reasoning	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Correct misconceptions	Demonstrate “Correct misconceptions” by giving a correct conclusion and a mathematically valid reason.

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NA-DEC-001	P4-W21-KP1	21	3	Decimals to three places	NA-DEC	Number & Algebra	Introduce	MOE Core	Represent tenths hundredths and thousandths	Demonstrate “Represent tenths hundredths and thousandths” using correct place value, alignment and stated accuracy where required.
NA-DEC-002	P4-W21-KP2	21	3	Decimals to three places	NA-DEC	Number & Algebra	Introduce	MOE Core	Read and write decimals	Demonstrate “Read and write decimals” using correct place value, alignment and stated accuracy where required.
NA-DEC-003	P4-W21-KP3	21	3	Decimals to three places	NA-DEC	Number & Algebra	Introduce	MOE Core	Compare and order decimals	Demonstrate “Compare and order decimals” using correct place value, alignment and stated accuracy where required.
NA-DEC-004	P4-W21-KP4	21	3	Decimals to three places	NA-DEC	Number & Algebra	Introduce	MOE Core	Locate decimals on number lines	Demonstrate “Locate decimals on number lines” using correct place value, alignment and stated accuracy where required.
NA-FR-013	P4-W22-KP1	22	3	Fractions and decimals	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Express decimals as fractions	Demonstrate “Express decimals as fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-014	P4-W22-KP2	22	3	Fractions and decimals	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Express eligible fractions as decimals	Demonstrate “Express eligible fractions as decimals” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-REASON-005	P4-W22-KP3	22	3	Fractions and decimals	PS-REASON	Number & Algebra	Develop / Apply	MOE Core	Use place value to explain equivalence	Demonstrate “Use place value to explain equivalence” by giving a correct conclusion and a mathematically valid reason.
NA-FR-015	P4-W22-KP4	22	3	Fractions and decimals	NA-FR	Number & Algebra	Develop / Apply	MOE Core	Compare values across forms	Demonstrate “Compare values across forms” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-DEC-005	P4-W23-KP1	23	3	Rounding decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Round to nearest whole number	Demonstrate “Round to nearest whole number” using correct place value, alignment and stated accuracy where required.
NA-DEC-006	P4-W23-KP2	23	3	Rounding decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Round to one decimal place	Demonstrate “Round to one decimal place” using correct place value, alignment and stated accuracy where required.
NA-DEC-007	P4-W23-KP3	23	3	Rounding decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Round to two decimal places	Demonstrate “Round to two decimal places” using correct place value, alignment and stated accuracy where required.
NA-DEC-008	P4-W23-KP4	23	3	Rounding decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Use rounded values for estimation	Demonstrate “Use rounded values for estimation” using correct place value, alignment and stated accuracy where required.
NA-DEC-009	P4-W24-KP1	24	3	Adding and subtracting decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Align decimal place values	Demonstrate “Align decimal place values” using correct place value, alignment and stated accuracy where required.
NA-DEC-010	P4-W24-KP2	24	3	Adding and subtracting decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Add decimals up to two places	Demonstrate “Add decimals up to two places” using correct place value, alignment and stated accuracy where required.
NA-DEC-011	P4-W24-KP3	24	3	Adding and subtracting decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Subtract decimals up to two places	Demonstrate “Subtract decimals up to two places” using correct place value, alignment and stated accuracy where required.
PS-CHECK-005	P4-W24-KP4	24	3	Adding and subtracting decimals	PS-CHECK	Number & Algebra	Develop / Apply	MOE Core	Estimate and check decimal answers	Demonstrate “Estimate and check decimal answers” by identifying or preventing an error and showing a valid check.
NA-DEC-012	P4-W25-KP1	25	3	Multiplying and dividing decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Multiply decimals by a one-digit whole number	Demonstrate “Multiply decimals by a one-digit whole number” using correct place value, alignment and stated accuracy where required.
NA-DEC-013	P4-W25-KP2	25	3	Multiplying and dividing decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Divide decimals by a one-digit whole number	Demonstrate “Divide decimals by a one-digit whole number” using correct place value, alignment and stated accuracy where required.
NA-DEC-014	P4-W25-KP3	25	3	Multiplying and dividing decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Interpret decimal quotients	Demonstrate “Interpret decimal quotients” using correct place value, alignment and stated accuracy where required.
NA-DEC-015	P4-W25-KP4	25	3	Multiplying and dividing decimals	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Round answers to specified accuracy	Demonstrate “Round answers to specified accuracy” using correct place value, alignment and stated accuracy where required.
NA-DEC-016	P4-W26-KP1	26	3	Division with decimal quotient	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Divide whole numbers to obtain decimal quotients	Demonstrate “Divide whole numbers to obtain decimal quotients” using correct place value, alignment and stated accuracy where required.

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NA-DEC-017	P4-W26-KP2	26	3	Division with decimal quotient	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Use place-value continuation	Demonstrate “Use place-value continuation” using correct place value, alignment and stated accuracy where required.
PS-CHECK-006	P4-W26-KP3	26	3	Division with decimal quotient	PS-CHECK	Number & Algebra	Develop / Apply	MOE Core	Check with multiplication	Demonstrate “Check with multiplication” by identifying or preventing an error and showing a valid check.
NA-DEC-018	P4-W26-KP4	26	3	Division with decimal quotient	NA-DEC	Number & Algebra	Develop / Apply	MOE Core	Interpret quotients in measurement contexts	Demonstrate “Interpret quotients in measurement contexts” using correct place value, alignment and stated accuracy where required.
ST-DATA-010	P4-W27-KP1	27	3	Pie charts	ST-DATA	Statistics	Develop / Apply	MOE Core	Read data from a labelled pie chart	Demonstrate “Read data from a labelled pie chart” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-011	P4-W27-KP2	27	3	Pie charts	ST-DATA	Statistics	Develop / Apply	MOE Core	Interpret sectors as parts of a whole	Demonstrate “Interpret sectors as parts of a whole” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-012	P4-W27-KP3	27	3	Pie charts	ST-DATA	Statistics	Develop / Apply	MOE Core	Compare categories using sector size and values	Demonstrate “Compare categories using sector size and values” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-013	P4-W27-KP4	27	3	Pie charts	ST-DATA	Statistics	Develop / Apply	MOE Core	Solve one-step and two-step pie-chart questions	Demonstrate “Solve one-step and two-step pie-chart questions” by extracting or organising data accurately and supporting the answer with evidence.
MG-GEO-018	P4-W28-KP1	28	3	2D representations and nets of solids	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Identify 2D representations of cubes cuboids cones cylinders prisms and pyramids	Demonstrate “Identify 2D representations of cubes cuboids cones cylinders prisms and pyramids” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-019	P4-W28-KP2	28	3	2D representations and nets of solids	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Draw 2D representations of cubes cuboids prisms and pyramids	Demonstrate “Draw 2D representations of cubes cuboids prisms and pyramids” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-020	P4-W28-KP3	28	3	2D representations and nets of solids	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Identify nets of cubes cuboids prisms and pyramids	Demonstrate “Identify nets of cubes cuboids prisms and pyramids” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-021	P4-W28-KP4	28	3	2D representations and nets of solids	MG-GEO	Measurement & Geometry	Develop / Apply	MOE Core	Identify the solid formed by a given net	Demonstrate “Identify the solid formed by a given net” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-022	P4-W29-KP1	29	3	Spatial visualisation extension	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Identify front side and top views	Demonstrate “Identify front side and top views” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-023	P4-W29-KP2	29	3	Spatial visualisation extension	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Mentally fold simple nets	Demonstrate “Mentally fold simple nets” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-024	P4-W29-KP3	29	3	Spatial visualisation extension	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Count cubes in simple structures	Demonstrate “Count cubes in simple structures” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-025	P4-W29-KP4	29	3	Spatial visualisation extension	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Infer hidden cubes in supported diagrams	Demonstrate “Infer hidden cubes in supported diagrams” using an accurate diagram, stated property or geometric construction as appropriate.
MG-GEO-026	P4-W30-KP1	30	3	Term 3 mastery and application	MG-GEO	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Integrate decimals data and nets	Demonstrate “Integrate decimals data and nets” using an accurate diagram, stated property or geometric construction as appropriate.
NA-DEC-019	P4-W30-KP2	30	3	Term 3 mastery and application	NA-DEC	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve decimal word problems	Demonstrate “Solve decimal word problems” using correct place value, alignment and stated accuracy where required.
PS-REASON-006	P4-W30-KP3	30	3	Term 3 mastery and application	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret a simple pie chart	Demonstrate “Interpret a simple pie chart” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-007	P4-W30-KP4	30	3	Term 3 mastery and application	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Explain a spatial argument	Demonstrate “Explain a spatial argument” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-008	P4-W30-KP5	30	3	Term 3 mastery and application	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Complete a multi-topic challenge	Demonstrate “Complete a multi-topic challenge” by giving a correct conclusion and a mathematically valid reason.
NA-FR-016	P4-W31-KP1	31	4	Four operations of whole numbers and fraction retrieval	NA-FR	Number & Algebra	Consolidate	Spiral Maintenance / Transfer	Add and subtract numbers to 100 000 accurately	Demonstrate “Add and subtract numbers to 100 000 accurately” with an appropriate fraction model or calculation and a simplified final answer where required.

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NA-FR-017	P4-W31-KP2	31	4	Four operations of whole numbers and fraction retrieval	NA-FR	Number & Algebra	Consolidate	Spiral Maintenance / Transfer	Multiply and divide within P4 syllabus limits	Demonstrate “Multiply and divide within P4 syllabus limits” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-018	P4-W31-KP3	31	4	Four operations of whole numbers and fraction retrieval	NA-FR	Number & Algebra	Consolidate	Spiral Maintenance / Transfer	Select operations in multi-step contexts	Demonstrate “Select operations in multi-step contexts” with an appropriate fraction model or calculation and a simplified final answer where required.
NA-FR-019	P4-W31-KP4	31	4	Four operations of whole numbers and fraction retrieval	NA-FR	Number & Algebra	Consolidate	Spiral Maintenance / Transfer	Use factors to simplify fractions	Demonstrate “Use factors to simplify fractions” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-CHECK-007	P4-W31-KP5	31	4	Four operations of whole numbers and fraction retrieval	PS-CHECK	Number & Algebra	Consolidate	Spiral Maintenance / Transfer	Estimate and verify numerical answers	Demonstrate “Estimate and verify numerical answers” by identifying or preventing an error and showing a valid check.
NA-DEC-020	P4-W32-KP1	32	4	Decimal applications	NA-DEC	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Solve money and measurement decimal problems	Demonstrate “Solve money and measurement decimal problems” using correct place value, alignment and stated accuracy where required.
NA-DEC-021	P4-W32-KP2	32	4	Decimal applications	NA-DEC	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Handle multi-step decimal contexts	Demonstrate “Handle multi-step decimal contexts” using correct place value, alignment and stated accuracy where required.
NA-DEC-022	P4-W32-KP3	32	4	Decimal applications	NA-DEC	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Select a sensible degree of accuracy	Demonstrate “Select a sensible degree of accuracy” using correct place value, alignment and stated accuracy where required.
PS-CHECK-008	P4-W32-KP4	32	4	Decimal applications	PS-CHECK	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Check through inverse operations	Demonstrate “Check through inverse operations” by identifying or preventing an error and showing a valid check.
MG-MEAS-006	P4-W33-KP1	33	4	Composite area and perimeter	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Decompose composite figures made of rectangles and squares	Demonstrate “Decompose composite figures made of rectangles and squares” with correct measurement, calculation, notation and units.
MG-MEAS-007	P4-W33-KP2	33	4	Composite area and perimeter	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Find missing side lengths in composite figures	Demonstrate “Find missing side lengths in composite figures” with correct measurement, calculation, notation and units.
MG-MEAS-008	P4-W33-KP3	33	4	Composite area and perimeter	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Find area and perimeter using addition or subtraction	Demonstrate “Find area and perimeter using addition or subtraction” with correct measurement, calculation, notation and units.
MG-MEAS-009	P4-W33-KP4	33	4	Composite area and perimeter	MG-MEAS	Measurement & Geometry	Develop / Apply	MOE Core + Advanced Bridge	Compare alternative decompositions as an extension	Demonstrate “Compare alternative decompositions as an extension” with correct measurement, calculation, notation and units.
MG-GEO-027	P4-W34-KP1	34	4	Geometry reasoning challenge	MG-GEO	Measurement & Geometry	Extend	Advanced Bridge / Extension	Use multiple angle facts in one figure	Demonstrate “Use multiple angle facts in one figure” using an accurate diagram, stated property or geometric construction as appropriate.
PS-REASON-009	P4-W34-KP2	34	4	Geometry reasoning challenge	PS-REASON	Measurement & Geometry	Extend	Advanced Bridge / Extension	Infer properties from markings	Demonstrate “Infer properties from markings” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-010	P4-W34-KP3	34	4	Geometry reasoning challenge	PS-REASON	Measurement & Geometry	Extend	Advanced Bridge / Extension	Distinguish necessary from visual information	Demonstrate “Distinguish necessary from visual information” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-011	P4-W34-KP4	34	4	Geometry reasoning challenge	PS-REASON	Measurement & Geometry	Extend	Advanced Bridge / Extension	Explain each step with a reason	Demonstrate “Explain each step with a reason” by giving a correct conclusion and a mathematically valid reason.
ST-DATA-014	P4-W35-KP1	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Collect paired data over time	Demonstrate “Collect paired data over time” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-015	P4-W35-KP2	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Choose table or line graph	Demonstrate “Choose table or line graph” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-016	P4-W35-KP3	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	Construct a line graph	Demonstrate “Construct a line graph” by extracting or organising data accurately and supporting the answer with evidence.
ST-DATA-017	P4-W35-KP4	35	4	Data investigation	ST-DATA	Statistics	Consolidate	MOE Core	State trends and limitations	Demonstrate “State trends and limitations” by extracting or organising data accurately and supporting the answer with evidence.
PS-MODEL-003	P4-W36-KP1	36	4	Model method and units	PS-MODEL	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Model multiplicative comparison	Demonstrate “Model multiplicative comparison” using an accurate labelled model that leads to the answer.

KP ID	Week KP ID	Annual Week	Term	Weekly Focus	Spiral Family	Domain	Learning Stage	Core Status	Atomic Knowledge Point	Assessable Evidence
NA-FR-020	P4-W36-KP2	36	4	Model method and units	NA-FR	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Model fraction-of-set situations	Demonstrate “Model fraction-of-set situations” with an appropriate fraction model or calculation and a simplified final answer where required.
PS-MODEL-004	P4-W36-KP3	36	4	Model method and units	PS-MODEL	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Track units across multiple steps	Demonstrate “Track units across multiple steps” using an accurate labelled model that leads to the answer.
NA-ALG-001	P4-W36-KP4	36	4	Model method and units	NA-ALG	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Translate models into equations	Demonstrate “Translate models into equations” using a correct rule, expression or equation and verify the result where appropriate.
ST-DATA-018	P4-W37-KP1	37	4	Heuristics development	ST-DATA	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Make a systematic table	Demonstrate “Make a systematic table” by extracting or organising data accurately and supporting the answer with evidence.
PS-CHECK-009	P4-W37-KP2	37	4	Heuristics development	PS-CHECK	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Use guess check and improve	Demonstrate “Use guess check and improve” by identifying or preventing an error and showing a valid check.
PS-HEUR-002	P4-W37-KP3	37	4	Heuristics development	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Work backward from a final state	Demonstrate “Work backward from a final state” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-HEUR-003	P4-W37-KP4	37	4	Heuristics development	PS-HEUR	Problem Solving & Mathematical Processes	Consolidate	MOE Core	Use before-after relationships	Demonstrate “Use before-after relationships” by selecting and applying a suitable strategy to a scaffolded unfamiliar problem.
PS-REASON-012	P4-W38-KP1	38	4	Integrated assessment practice	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve short and structured problems	Demonstrate “Solve short and structured problems” by giving a correct conclusion and a mathematically valid reason.
NA-FR-021	P4-W38-KP2	38	4	Integrated assessment practice	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Combine whole numbers fractions decimals and geometry	Demonstrate “Combine whole numbers fractions decimals and geometry” with an appropriate fraction model or calculation and a simplified final answer where required.
ST-DATA-019	P4-W38-KP3	38	4	Integrated assessment practice	ST-DATA	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Interpret visual and data information	Demonstrate “Interpret visual and data information” by extracting or organising data accurately and supporting the answer with evidence.
PS-REASON-013	P4-W38-KP4	38	4	Integrated assessment practice	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Review errors by knowledge point	Demonstrate “Review errors by knowledge point” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-014	P4-W39-KP1	39	4	P4 cumulative mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Retrieve all P4 content independently	Demonstrate “Retrieve all P4 content independently” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-015	P4-W39-KP2	39	4	P4 cumulative mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Solve advanced multi-step problems	Demonstrate “Solve advanced multi-step problems” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-016	P4-W39-KP3	39	4	P4 cumulative mastery	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Select efficient representations	Demonstrate “Select efficient representations” by giving a correct conclusion and a mathematically valid reason.
PS-CHECK-010	P4-W39-KP4	39	4	P4 cumulative mastery	PS-CHECK	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Verify exact and estimated answers	Demonstrate “Verify exact and estimated answers” by identifying or preventing an error and showing a valid check.
NA-WN-017	P4-W40-KP1	40	4	P4 year-end mastery and P5 readiness	NA-WN	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Master numbers to 100 000 factors multiples and operations	Demonstrate “Master numbers to 100 000 factors multiples and operations” accurately in one direct item and one age-appropriate contextual application.
NA-FR-022	P4-W40-KP2	40	4	P4 year-end mastery and P5 readiness	NA-FR	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Master fractions and decimals	Demonstrate “Master fractions and decimals” with an appropriate fraction model or calculation and a simplified final answer where required.
MG-MEAS-010	P4-W40-KP3	40	4	P4 year-end mastery and P5 readiness	MG-MEAS	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Apply angles area perimeter symmetry nets and data	Demonstrate “Apply angles area perimeter symmetry nets and data” with correct measurement, calculation, notation and units.
PS-REASON-017	P4-W40-KP4	40	4	P4 year-end mastery and P5 readiness	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Use multi-step models and heuristics	Demonstrate “Use multi-step models and heuristics” by giving a correct conclusion and a mathematically valid reason.
PS-REASON-018	P4-W40-KP5	40	4	P4 year-end mastery and P5 readiness	PS-REASON	Problem Solving & Mathematical Processes	Master / Transfer	Spiral Maintenance / Transfer	Transfer to unfamiliar problems	Demonstrate “Transfer to unfamiliar problems” by giving a correct conclusion and a mathematically valid reason.

Primary 4 Mathematics - Spiral Progression Map

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

Spiral Family	P4 Entry Point	Development / Revisit Weeks	End-of-P4 Expectation	MOE Role	P5 Bridge	Atomic KP Count	Status
NA-WN	W1: Numbers to 100 000	W2, W3, W4, W10, W40	Use place value, rounding, factors and multiples to reason with whole numbers to 100 000.	Core	Numbers to 10 million and deeper factor-multiple work	17	Complete
NA-AS	W7: Four-operation word problems	W14	Select and apply whole-number operations accurately in multi-step contexts.	Core spiral	Four operations with larger numbers and complex problems	5	Complete
NA-MD	W5: Multiplication algorithms	W6	Multiply up to 3 digits by 2 digits and divide up to 4 digits by 1 digit with checking.	Core	Larger-number four operations, rates and fraction multiplication	7	Complete
NA-FR	W11: Mixed numbers and improper fractions	W12, W13, W20, W22, W31, W36, W38, W40	Convert forms, find fractions of sets and add/subtract unlike fractions; attempt labelled mixed-number extension.	Core + Advanced Bridge	Four operations of fractions and fraction-division relationships	22	Complete
NA-DEC	W21: Decimals to three places	W23, W24, W25, W26, W30, W32	Represent, compare, round and perform four operations on decimals within P4 limits.	Core	Decimals, percentage links and more complex applications	22	Complete
NA-ALG	W36: Model method and units	Embedded retrieval	Recognise numerical structure and express multi-step relationships with equations and models.	Mathematical process bridge	Formal algebraic thinking and unknowns	1	Complete
MG-MEAS	W18: Area and perimeter	W20, W33, W40	Solve rectangle/square and composite rectilinear area-perimeter problems with missing lengths.	Core + Advanced Bridge	Area of triangle, volume and composite measures	10	Complete
MG-GEO	W15: Naming, measuring and drawing angles	W16, W17, W19, W20, W28, W29, W30, W34	Name, measure and draw angles; apply rectangle/square properties, symmetry and complete solid representations and nets.	Core + labelled P5 angle-fact readiness	Line, point and vertical-opposite angle facts; triangle/quadrilateral properties	27	Complete
ST-DATA	W8: Tables and line graphs	W9, W10, W27, W35, W37, W38	Read and interpret tables, line graphs and pie charts; evaluate supported claims.	Core + scale-literacy extension	Multi-representation retrieval and data investigations	19	Complete
PS-MODEL	W7: Four-operation word problems	W12, W36	Use models for multi-step whole-number, fraction, decimal and multiplicative comparison problems.	Mathematical processes	Complex bar models, rates and percentage	4	Complete
PS-HEUR	W10: Term 1 mastery and transfer	W37	Use systematic tables, guess-check-improve, working backward and before-after relationships.	Mathematical processes	Independent heuristic selection and transfer	3	Complete

Spiral Family	P4 Entry Point	Development / Revisit Weeks	End-of-P4 Expectation	MOE Role	P5 Bridge	Atomic KP Count	Status
PS-REASON	W10: Term 1 mastery and transfer	W20, W22, W30, W34, W38, W39, W40	State reasons for numerical, fractional, geometric, spatial and data conclusions.	Mathematical processes	Longer proofs and multi-condition reasoning	18	Complete
PS-CHECK	W2: Rounding and estimation	W6, W7, W14, W24, W26, W31, W32, W37, W39	Verify work using estimation, inverse operations, unit checks and misconception analysis.	Mathematical processes	Independent checking across extended multi-step tasks	10	Complete
PS-COMM	Embedded across weekly tasks	Embedded retrieval	Use equations, models, angle reasons, graph scales, units and spatial explanations precisely.	Mathematical processes	More concise and formal mathematical communication	0	Embedded only

Primary 4 Mathematics - MOE Coverage Audit

Cross-check of P4 syllabus content and mathematical processes against the 40-week allocation.

MOE Strand / Topic	Expected P4 Scope	Allocated Weeks	Progression Check	Assessment Readiness	Advanced Boundary	Status	Source
Whole Numbers	Numbers to 100 000; rounding, estimation, factors, multiples and four-operation applications	W1-W7, W10, W31, W38-W40	P3 to 10 000 -> P4 to 100 000 -> structural reasoning	Place value, rounding, factor/multiple relationships, algorithms and word problems	Divisibility aids and bounds are labelled as advanced support	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Fractions	Mixed/improper forms, fraction of a set and addition/subtraction of unlike fractions	W11-W14, W20, W22, W31, W36-W40	P3 related fractions -> P4 unlike fractions and values above one	Conversion, number lines, common denominators, models and contextual application	Mixed-number operations and inverse fraction-of-set are labelled extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Decimals	Decimals to three places; fraction links; rounding and four operations within syllabus limits	W21-W26, W30-W32, W38-W40	Place value -> comparison -> rounding -> operations -> application	Representation, conversion, computation, accuracy and contextual interpretation	No premature percentage or recurring-decimal work	Complete	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Angles and Quadrilaterals	Angle notation, measurement and drawing; rectangle and square properties	W15-W17, W20, W34, W38-W40	P3 right-angle comparison -> P4 notation/measurement/drawing -> P5 line, point and vertical-opposite facts	Name, measure and draw angles; apply rectangle and square properties	W16 line/point angle facts are labelled P5 readiness extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Area and Perimeter	Rectangles, squares, missing dimensions and composite rectilinear figures	W18, W20, W33, W38-W40	P3 grid/formula foundations -> P4 composite decomposition	Formula use, missing lengths, equal-area/perimeter reasoning and decomposition	Alternative decompositions are advanced transfer, not new formulae	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Symmetry, Nets and Spatial Visualisation	Line symmetry; 2D representations and nets of cubes, cuboids, cones, cylinders, prisms and pyramids	W19-W20, W28-W30, W38-W40	P3 spatial readiness -> P4 formal symmetry and nets	Complete symmetric figures; draw/identify representations; identify nets and resulting solids	Views, cube counting and hidden-cube inference are labelled extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Tables and Line Graphs	Complete/read tables and read line graphs using scales, intervals, trends and claims	W8-W10, W35, W38-W40	P3 bar graphs -> P4 line graphs and change over time	Read, connect table/graph values, construct and interpret trends	Misleading-scale and informal rate-of-change work is labelled extension	Complete + Advanced Bridge	https://www.moe.gov.sg/media/files/primary/92bff26d -b2b4-4535-b868-b8415c744b91.pdf
Pie Charts	Read and interpret data from labelled pie charts	W27, W30, W35, W38-W40	P3 bar graphs -> P4 tables, line graphs and pie charts -> P5 retrieval	Read values, compare sectors and solve supported questions	Pie charts are treated as ordinary P4 MOE core	Complete	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 W7, W10, W20, W30-W40	Guided strategy -> multi-topic integration -> independent transfer	Models, equations, method choice, reasons, exact answers and verification	Non-routine tasks are age-appropriate and explicitly labelled	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	P4 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.