Number (N)

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
WHOLE NUMBERS	**WHOLE NUMBERS**	**WHOLE NUMBERS**	**WHOLE NUMBERS**	**WHOLE NUMBERS**	**WHOLE NUMBERS**	**WHOLE NUMBERS**
after as many as backward before count forward count on count back counters counting numbers: one to twenty dot cards dots five-frames forward How many? left middle more than fewer than next numeral order parts, whole right set of objects show the counting numbers, 1 to 9 the same as the same count	after as many as backward before between compare sets count back count on counters counting numbers: one to one hundred dots double ten-frames fewer than five-frame forward greater than groups hundred chart left middle more than next number lines number sequence numeral one less one more parts, whole quantity of objects represent right singles size of objects skip count ten-frame the same as (equal) two less two more	after backward base-ten blocks before between calculator coins compare digit dime even numbers expression first to tenth forward groups of two hundred chart left over next nickel number line number words: zero to twenty (zero, one, two, …., twenty) numbers: zero to two hundred numeral objects events odd numbers ones order numbers parts penny place value (tens and ones) position quantity quarter represent rod shared skip count small cube tally ten-frame tens two equal groups	1-digit 2-digit backward benchmark numbers closer to compare digits dimes errors flats forward greater than greatest hundred chart hundreds least less than loonies mental mathematics minus missing numbers more than nickels number expression number line number words numbers: zero to one thousands ones order partition numbers place value (hundreds, tens, ones) quarters represent numbers rods skip counting patterns small cubes strategy symbols ten and some more tens	benchmark numbers closer to compare digits errors expanded notation greater than greatest hundreds hundreds chart least less than missing numbers more than number expression number line number words ones order partition numbers place value (to 10 000) relative order represent numbers symbols tens thousands	digits equal expanded notation greater than hundreds less than million number expression number lines number words ones partition numbers place value (to million) represent symbols tens thousands	calculators computers decimal notation decimals (less than one-thousandth) estimate expanded notation expressions mental mathematics paper and pencil place value (numbers greater than one million and less than one-thousandth) reasonableness

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DECIMALS **NA**	**DECIMALS** **NA**	**DECIMALS** **NA**	**DECIMALS** **NA**	**DECIMALS** decimals equivalent hundredth grid hundredths measure money value one whole part of a region part of a set part of a unit of measure relate decimals to fractions and fractions to decimals tenth	**DECIMALS** benchmarks compare decimals equivalent equivalent decimals hundredth grid hundredths number lines order part of a region part of a set part of a unit of measure place value relate decimals to fractions and fractions to decimals tenths tenths thousandths thousandth grid value	**DECIMALS** calculators computers decimal notation decimals estimate expanded notation expressions mental mathematics paper and pencil place value reasonableness
FRACTIONS **NA**	**FRACTIONS** **NA**	**FRACTIONS** **NA**	**FRACTIONS** bottom number equal parts fraction greater than halves, fourths, fifths, eighths, sixths, tenths, thirds, twelfths less than one one-whole one-fourth one-half top number whole	**FRACTIONS** benchmark compare denominator equal parts equivalent fractions halves, fourths, fifths, eighths, sixths, tenths, thirds, twelfths hundredth grid numerator one one-whole one-fourth one-half order region relate decimals to fractions and fractions to decimals whole	**FRACTIONS** compare denominator equivalent equivalent fractions hundredth grid linear model number line numerators order region relate decimals to fractions and fractions to decimals same quantity set thousandth grid unlike denominators one-whole whole	**FRACTIONS** area model benchmarks denominator improper fractions linear model meaning mixed numbers numerator proper fractions set model
INTEGERS **NA**	**INTEGERS** **NA**	**INTEGERS** **NA**	**INTEGERS** **NA**	**INTEGERS** **NA**	**INTEGERS** **NA**	**INTEGERS** “+” and “–” symbols ascending compare descending equal (=) greater than (>) integers less than (<) negative numbers order positive numbers zero

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PERCENT **NA**	**PERCENT** **NA**	**PERCENT** **NA**	**PERCENT** **NA**	**PERCENT** **NA**	**PERCENT** **NA**	**PERCENT** benchmarks fraction and decimal percent percentage quantity ratio
RATIO **NA**	**RATIO** **NA**	**RATIO** **NA**	**RATIO** **NA**	**RATIO** **NA**	**RATIO** **NA**	**RATIO** comparison equivalent equivalent fractions multiple forms part-to-part and part-to-whole ratio
ESTIMATION	**ESTIMATION** estimate	**ESTIMATION** about closer to estimate group of ten less than more than	**ESTIMATION** 1-digit 2-digit 3-digit a little less than a little more than about between close close to estimate groups of hundred groups of ten near	**ESTIMATION** about approximate change compatible numbers compensate counting back counting on estimating differences estimating products estimating quotients estimating sums exact front-end addition front-end subtraction money problems rounding tenths and hundredths	**ESTIMATION** about approximate compatible numbers compensation estimating differences estimating products estimating quotients estimating sums estimation front end front-end adjusted making sense overestimating predictions rounding	**ESTIMATION** about approximate compatible numbers compensation estimating differences estimating products estimating quotients estimating sums estimation front end front-end adjusted making sense overestimating predictions rounding

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ADDITION AND SUBTRACTION **NA**	**ADDITION AND SUBTRACTION** add count back count on difference doubles equal is the same as less than making ten minus more than near doubles number sentence one less one more plus situation story problem subtract sum total	**ADDITION AND SUBTRACTION** 1-apart 2-apart add adding zero difference difference double facts friendly numbers how many less how many more larger make-10 minus near doubles next even number next number next odd number number after number sentence ones order and grouping part part/whole plus plus one plus zero skip count by 2 smaller story problem strip diagram subtract subtracting zero sum take away tens think addition together total whole zero	**ADDITION AND SUBTRACTION** 1-apart 2-apart addition addition facts back-through-10 difference double flats grouping make-ten mental mathematics strategy no change number sentence order order does not matter part, part, whole plus-0 plus-1 plus-2 rods small cubes strip diagram subtraction subtraction facts sum trading unknown up-through-10	**ADDITION AND SUBTRACTION** addition benchmarks change compatible numbers compensate compensation counting back counting on difference equivalent estimate estimating sums estimating differences exact and approximate four-digit front-end addition front-end subtraction hundredth grid hundredths making a friendly number money problems number sentence one-digit two- digit three-digit relate decimals to fractions and fractions to decimals rounding subtraction sum tenths	**ADDITION AND SUBTRACTION** estimating sums estimating differences exact approximate place value tenths hundredths thousandths	**ADDITION AND SUBTRACTION** always the same approximate calculators estimating differences estimating sums exact mental mathematics multi-step operations order parentheses

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MULTIPLICATION AND DIVISION **NA**	**MULTIPLICATION AND DIVISION** **NA**	**MULTIPLICATION AND DIVISION** **NA**	**MULTIPLICATION AND DIVISION** divided into division division equal groups factors groups of jumps of multiplication number expression number in each group number line number of groups number sentence product repeated addition repeated subtraction rows of	**MULTIPLICATION AND DIVISION** arrays distributive property divided into dividend dividing one dividing zero division facts divisor equal groups estimating products estimating quotients factors five facts (clock facts) groups of jumps of mental mathematics strategy multiplication multiplication facts multiplying by zero number expression number in each group number line number of groups number sentence one product properties quotient relating division to multiplication remainder repeated addition repeated doubling repeated subtraction rows of sets skip counting ten fact using halving zero	**MULTIPLICATION AND DIVISION** area model arrays distributive property dividend division facts divisor equal groups estimate estimating products estimating quotients expanded notation factors five facts (clock facts) groups of interpret remainders jumps of mental mathematics strategy multiples of 10, 100, 1000 multiplication facts number lines number of groups partial product personal strategy product quotient relating division to multiplication repeated addition repeated doubling rows of sets skip counting ten facts using halving	**MULTIPLICATION AND DIVISION** always the same calculators composite numbers decimal point decimals division divisors estimating products estimating quotients estimation factor trees factors greatest factor least factor multiples multiplication multipliers multi-step operations order parentheses prime numbers product quotient reasonableness second factor skip counting

Patterns and Relations (PR)

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
PATTERNS core elements non-repeating patterns patterns repeating pattern	**PATTERNS** core create describe element extend repeating pattern reproduce	**PATTERNS** amount of increase compare core create describe element extend extend growing pattern grows increases increasing pattern pattern rule predict repeating pattern reproduce start number term	**PATTERNS** decreasing by … decreasing patterns increasing by, … increasing patterns pattern rule starting point term	**PATTERNS** attributes Carroll diagram characteristics charts decreasing patterns diagrams element errors extend increasing patterns mathematical relationships missing elements multiplication charts new element patterns sorting rule tables term translate Venn diagram	**PATTERNS** expression extending pattern increasing and decreasing patterns one more one less five more pattern rule predict tables and charts terms	**PATTERNS** decrease geometric increase increasing pattern linear graph pattern rule predict relationships repeating pattern table table of values term term number term value translate unknown term values verify
EQUALITY AND INEQUALITY	**EQUALITY AND INEQUALITY** balance scale compare equal equal sign fewer than left make sets more than not equal to not the same as quantity right same as	**EQUALITY AND INEQUALITY** balance balance scale equal equal sets equal sign (=) is equal to is less than is more than is not equal to is not the same as is the same as not equal not equal sign (≠) number sentence unequal sets	**EQUALITY AND INEQUALITY** addition equation guess and check solve subtraction equation symbol unknown	**EQUALITY AND INEQUALITY** addition addition equation division division equation equation guess and test multiplication multiplication equation one-step equations solve subtraction subtraction equation symbol unknown number	**EQUALITY AND INEQUALITY** addition equation division equation letter variable multiplication equation numerical factor, which is not a variable one-step equations solve subtraction equation symbol unknown number	**EQUALITY AND INEQUALITY** addends addition area commutative property equality equations equivalence factors formula inequality mathematical expression multiplication pattern rule perimeter preservation regular polygon relationship variables

Measurement (M)

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
TIME	**TIME**	**TIME** before calendar date day days of the week: Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, month months of the year: January, February, March, April, May, June, July, August, September, October, November, December Next Today today's date tomorrow tomorrow's date week year yesterday yesterday's date	**TIME** calendar clock days days estimate hours measure minutes months seconds time weeks years	**TIME** calendar clock day days estimate hours measure minutes months seconds time weeks years	**TIME**	**TIME**
LENGTH almost the same as compare longer shorter taller	**LENGTH** distance height length longer longest narrowest shorter tallest thickest thinnest widest width	**LENGTH** about balance scale compare distance around estimate height length little less than little more than longer than measure object order referent shorter than unit width	**LENGTH** centimetre estimate height length line segment measure metre referent ruler straight edge width	**LENGTH**	**LENGTH** centimetre equivalent length metre millimetre referents	**LENGTH**
AREA **NA**	**AREA** covers less covers more greatest area largest area least area smallest area	**AREA**	**AREA** NA	**AREA** area estimate measure measure of surface square centimetre square metre standard units	**AREA** centimetre construct design estimate measure metre relationship between area and perimeter square centimetre square metre	**AREA** area area of base base formula height polygon rectangular prisms

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
MASS almost the same as compare heavier lighter	**MASS** heavier heaviest lighter lightest mass	**MASS** about balance balance scale compare estimate heavier than lighter than little less than little more than mass measure object order referent unit	**MASS** balance scale estimate gram kilogram mass measure referent	**MASS**	**MASS**	**MASS**
PERIMETER **NA**	**PERIMETER** **NA**	**PERIMETER** distance around height length mass	**PERIMETER** centimetre distance around estimate measure metre perimeter referent	**PERIMETER**	**PERIMETER** centimetre construct design estimate measure metre relationship between area and perimeter square centimetre square metre	**PERIMETER** formula perimeter polygon
VOLUME almost the same as bigger compare smaller	**VOLUME** bigger smaller takes up less space takes up more space volume	**VOLUME**	**VOLUME**	**VOLUME**	**VOLUME** 3-D object constructing rectangular prisms cube cubic centimetre cubic metre estimating referents volume	**VOLUME** area area of base base formula height rectangular prisms volume
CAPACITY compare holds less holds more holds almost the same as	**CAPACITY** capacity empty full holds less holds more holds the same	**CAPACITY**	**CAPACITY**	**CAPACITY**	**CAPACITY** capacity litre millilitre	**CAPACITY**

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ANGLES **NA**	**ANGLES** **NA**	**ANGLES** **NA**	**ANGLES** **NA**	**ANGLES** **NA**	**ANGLES** angle right angle position in space	**ANGLES** acute acute angle acute triangle classifying degrees equilateral triangle interior angles isosceles triangle measure obtuse obtuse angle obtuse triangle orientation polygon protractor quadrilaterals rays reference angles reflex angles right right angle right triangle rotation scalene triangle straight sum triangles turn vertex

Geometry (G)

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
3-D 3-D objects ability to fit together ability to roll ability to slide big flat how they are alike how they are different like a box like a can little round shapes that come up to a point sharp corners smooth sides sorting groups of objects	**3-D** 3-D objects cone corners cube cylinder faces how are they alike how are they different prism pyramid roll sides slide sorting groups of objects sorting rule sphere stack	**3-D** 3-D objects build compare cone corner cube curved curved surface cylinder describe different sizes edges faces flip footprint large name points prism pyramid recognize roll slide small sorting rule sphere stack straight surfaces turn vertices	**3-D** 3-D objects cones corners cubes curved surface cylinders edges faces flat surface prisms pyramids sides spheres vertices	**3-D** 3-D objects base corners edges faces models nets rectangular prisms sides triangular prisms vertices	**3-D** 3-D objects Carroll diagrams edges faces horizontal intersecting parallel perpendicular perpendicular bisector sides Venn diagrams vertical	**3-D**

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
2-D NA	**2-D** 2-D shapes circle corners faces how are they alike how are they different rectangle sides sorting groups of objects sorting rule square triangle	**2-D** 2-D shapes build circle compare corners curved describe different sizes edges faces flip large name recognize rectangle sides sides slide small sorting rule sorting sets of shapes square square square corners straight triangle turn vertices	**2-D** flipping hexagons octagons pentagons polygons quadrilaterals sizes sliding triangles turning	**2-D** 2-D shapes congruency congruent identical lines of symmetry mirror lines position in space size symmetry	**2-D** 2-D shapes angle bisect Carroll diagrams characteristics congruent diagonally diagonals direction direction of turn edges faces fraction of turn full turn $\frac{1}{4}$, $\frac{1}{2}$, or $\frac{3}{4}$ horizontal horizontally image intersecting magnitude orientation parallel parallelograms perpendicular perpendicular bisector point of rotation position position in space predict pre-image prime notation quadrilaterals rectangles reflection rhombi right angle rotation sides squares transformation translation trapezoids turn centre Venn diagrams vertical vertically vertices	**2-D** 2-D acute angle acute triangle analyze angles axes Cartesian plane combination congruence congruent coordinates corresponding design equilateral horizontal image interior angles intervals irregular isosceles move right move up obtuse angle obtuse triangle ordered pairs orientation origin plot points polygons positional change properties protractor quadrant reflections regular right angle right triangle rotations scalene side length sides successive tessellation transformation translations triangles vertical vertices

Statistics and Probability (SP)

Mathematics Primary Student Language	Mathematics 1 Student Language	Mathematics 2 Student Language	Mathematics 3 Student Language	Mathematics 4 Student Language	Mathematics 5 Student Language	Mathematics 6 Student Language
STATISTICS NA	**STATISTICS**	**STATISTICS** charts checkmarks data lists people graphs picture graphs tables tallies title	**STATISTICS** axes axis bar graph bar(s) charts collect crosses data display dots horizontal horizontal axis label line plots lists organize scale tally marks title vertical	**STATISTICS** appropriate scale axes axis bar graph bar(s) collect conclusions crosses data display dots graphs horizontal horizontal axis label legend many-to-one correspondence organize scale skip counting symbols title vertical	**STATISTICS** axes axis bar graph bar(s) conclusions construct create first-hand data horizontal interpret labels legend represent data scale second-hand data title vertical	**STATISTICS** analyze appropriate graph axes bar graphs broken-line graphs Carroll diagrams collecting data conclusion continuous data create databases design discrete data display double bar graphs electronic media experiments first-hand data gather graph data interpret interpreting graph intervals label line graphs line plots method ordered pairs organize pictographs questionnaires record results sample second-hand data select set of data table of values title variables Venn diagrams
PROBABILITY **NA**	**PROBABILITY** **NA**	**PROBABILITY** **NA**	**PROBABILITY** **NA**	**PROBABILITY** **NA**	**PROBABILITY** certain equally likely experiment impossible less likely likelihood more likely outcomes possible probability	**PROBABILITY** experimental probability outcomes probability ratio sample size theoretical probability trials