

FOUNDATION - KINDERGARTEN  
- PREP - RECEPTION

YEAR 1

YEAR 2

YEAR 3

YEAR 4

YEAR 5

YEAR 6

This grid contains 1000 hexagonal tiles, each representing a specific mathematical concept or skill. The tiles are organized by year level, from Foundation to Year 6. Each tile includes a code (e.g., N 1, M 2, T 1) and a brief description of the concept.

**FOUNDATION - KINDERGARTEN - PREP - RECEPTION:**

- N 1 COUNT FORWARDS & BACKWARDS TO 20
- N 2 RECOGNISE NUMERALS - SEEN & NAME SPOKEN
- N 3 WRITE NUMERALS EXPLAIN ONLY 1 ORIENTATION
- N 4 COUNT ITEMS 1-1 CORRESPONDENCE LAST NUMBER SAID TOTAL
- N 5 A NUMBER IS ALWAYS THE SAME AMOUNT
- N 6 NUMBERS AS QUANTITIES ARE INCLUSIVE
- N 7 SUBTISE
- N 8 ORDER NUMBERS, AFTER AND BEFORE
- N 9 FWDS BWDS IS ADD OR TAKE AWAY 1 EACH TIME
- N 10 NUMBER AFTER / BEFORE IS 1 MORE / FEWER
- N 11 GROUPING WITH / WITHOUT GROUP MARKERS
- N 12 ESTIMATE THE NUMBER IN GROUPS
- N 13 WRITE NUMERALS EXPLAIN ONLY 1 ORIENTATION
- N 14 INFORMAL PART-WHOLE RELATIONSHIPS TO 10
- N 15 START WITH 1 GROUP AND TAKE A GROUP AWAY
- N 16 COMPARE GROUPS TO FIND DIFFERENCE
- N 17 START WITH MORE THAN 1 GROUP & JOIN GROUPS TOGETHER
- N 18 INFORMAL PARTITION NUMBERS TO 20
- N 19 INFORMAL PART-WHOLE RELATIONSHIPS TO 20
- N 20 INFORMAL TEEN NUMBERS ARE 10 AND ...
- N 21 COUNT FWDS BWDS - ADD SUBTRACT 1 EACH TIME
- N 22 ADD SUBTRACT SINGLE-DIGIT COUNTERS
- N 23 ADD SUBTRACT ZERO
- N 24 ADD SUBTRACT COUNTING ON & BACK
- N 25 PART-WHOLE RELATIONSHIPS IN NUMBERS TO 10
- N 26 PARTITION NUMBERS TO 10
- N 27 NUMBER BONDS OF 10
- N 28 PLACE VALUE OF TEEN NUMBERS
- N 29 FIND DIFFERENCE COUNTING ON & BACK
- N 30 ADD SUBTRACT SINGLE-DIGIT BRIDGE 10
- N 31 PLACE VALUE OF 20s & 2-DIGIT NUMBERS
- N 32 PART-WHOLE & PARTITION TWO-DIGIT NUMBERS
- N 33 READ & ORDER NUMBERS TO 120
- N 34 PLACE VALUE OF 2- & 3-DIGIT NUMBERS
- N 35 ADD SUBTRACT SINGLE-DIGIT FLEXIBLY
- N 36 PART-WHOLE RELATIONSHIPS & PARTITION TO 1000
- N 37 COUNT, READ, ORDER, ROUND TO 1000
- N 38 ADD SUBTRACT TENS, 2-DIGIT FLEXIBLY
- N 39 AREA SQUARE UNITS IN ARRAY
- N 40 PLACE VALUE BEYOND 1000
- N 41 COUNT, READ, ORDER, BEYOND 1000
- N 42 ADD & SUBTRACT 2-3-DIGIT FLEXIBLY
- N 43 ADDITION & SUBTRACTION UNKNOWN VALUES
- N 44 MONEY REPRESENT CALCULATE VALUES
- N 45 MULTIPLICATIVE PLACE VALUE UP TO 6-DIGITS
- N 46 ADDITIVE PLACE VALUE UP TO 6-DIGITS
- N 47 ESTIMATE ROUND PROBLEMS STRATEGIES
- N 48 MISSING VALUES USING PROPERTIES
- N 49 MULTIPLICATIVE PLACE VALUE 10THS
- N 50 ADDITIVE PLACE VALUE 10THS
- N 51 MULTIPLICATIVE PLACE VALUE 100THS
- N 52 ADDITIVE PLACE VALUE 100THS
- N 53 MD 12 PROPERTIES EVEN ODD
- N 54 MULTIPLICATIVE PLACE VALUE 1000THS
- N 55 ADDITIVE PLACE VALUE 1000THS
- N 56 ESTIMATE ROUND TECHNOLOGY STRATEGIES
- N 57 F 7 PERCENTAGES DECIMALS & FRACTIONS
- N 58 F 9 ADD SUBTRACT FRACTIONS DENOMINATORS SAME RELATED
- N 59 MULTIPLY & DIVIDE DECIMALS BY POWERS OF 10
- N 60 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 61 F 10 FRACTIONS DECIMALS PERCENTAGES QUANTITIES
- N 62 PERCENTAGE DISCOUNTS
- N 63 ADD & SUBTRACT DECIMALS ESTIMATION STRATEGIES
- N 64 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- N 65 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- N 66 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- N 67 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- N 68 F 15 MEDIA DATA MISLEADING BIAS CLAIMS
- N 69 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 70 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 71 F 10 FRACTIONS DECIMALS PERCENTAGES QUANTITIES
- N 72 PERCENTAGE DISCOUNTS
- N 73 ADD & SUBTRACT DECIMALS ESTIMATION STRATEGIES
- N 74 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- N 75 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- N 76 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
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- N 79 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 80 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 81 F 10 FRACTIONS DECIMALS PERCENTAGES QUANTITIES
- N 82 PERCENTAGE DISCOUNTS
- N 83 ADD & SUBTRACT DECIMALS ESTIMATION STRATEGIES
- N 84 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- N 85 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- N 86 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- N 87 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- N 88 MEDIA DATA MISLEADING BIAS CLAIMS
- N 89 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 90 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 91 F 10 FRACTIONS DECIMALS PERCENTAGES QUANTITIES
- N 92 PERCENTAGE DISCOUNTS
- N 93 ADD & SUBTRACT DECIMALS ESTIMATION STRATEGIES
- N 94 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- N 95 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- N 96 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- N 97 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- N 98 MEDIA DATA MISLEADING BIAS CLAIMS
- N 99 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- N 100 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS

**YEAR 1:**

- G 1 SQUARES RECTANGLES TRIANGLES CIRCLES
- G 2 COMPARE LENGTHS HEIGHTS DISTANCES
- G 3 3D OBJECTS 2D SURFACES STRAIGHT & CURVED LINES
- G 4 3D OBJECTS 2D SURFACES STRAIGHT & CURVED LINES
- G 5 COMPARE AREAS OF SHAPES AND SURFACES
- G 6 3D OBJECTS FLAT & CURVED SURFACES
- G 7 VOLUME OF OBJECTS
- G 8 COMPARE MASS THROUGH HEFTING
- G 9 3 DIMENSIONS 2-D SHAPES SIDES
- G 10 LENGTH MULTIPLE SINGLE INFORMAL UNITS
- G 11 AREA USING INFORMAL UNITS
- G 12 SURFACES & LINES ON 3D OBJECTS
- G 13 VOLUME CUBES LIQUID INFORMAL UNIFORM
- G 14 F 2 SUBDIVIDE LENGTHS - HALVES QUARTERS
- G 15 MASS INFORMAL EQUAL ARM BALANCE
- G 16 TRANSLATE REFLECT ROTATE
- G 17 LENGTH TAPE MEASURE INFORMAL TO FORMAL
- G 18 SHAPES STRAIGHT CURVED LINES SIDES
- G 19 AREAS SQUARE UNITS IN ARRAY
- G 20 VOLUME INFORMAL BLOCKS LIQUID
- G 21 3D OBJECT PARTS 2D SHAPE FLAT SURFACE
- G 22 F 4 HALF QUARTER 3 QUARTER FULL TURNS
- G 23 MASS UNIFORM INFORMAL UNITS
- G 24 DESCRIBE CHANCE IN EVERYDAY EVENTS
- G 25 AREA SQUARE CENTIMETRES METRES
- G 26 ANGLES RIGHT SMALL LARGE TURNS
- G 27 2D SHAPES FEATURES TRANSFORM SYMMETRY
- G 28 3-D OBJECTS FEATURES NETS
- G 29 VOLUME METRIC LIQUID & CUBIC UNITS
- G 30 MASS METRIC UNITS + SCALES
- G 31 LENGTH PERIMETER CONVERT M - CM - MM
- G 32 2D COMPOSITE SYMMETRY ROTATIONAL LINE
- G 33 ANGLES TURN ARMS VERTEX TYPES
- G 34 AREA INFORMAL - FORMAL UNITS
- G 35 3D OBJECTS COMPOSITE VIEWS
- G 36 VOLUME LIQUID SCALED DEVICE METRIC
- G 37 MASS METRIC SCALES FRACTIONS
- G 38 ANGLES PROTRACTOR TESSELLATE BY SUM
- G 39 SIDE ANGLE PROPERTIES TRANSFORM EFFECTS
- G 40 LENGTH METRIC UNITS CALCULATE PERIMETER
- G 41 AREA METRIC REGULAR IRREGULAR
- G 42 THREE-DIMENSIONAL OBJECTS NETS
- G 43 VOLUME DISPLACEMENT METRIC
- G 44 MASS DEVICE METRIC UNITS
- G 45 LENGTH PERIMETER V AREA CONVERT
- G 46 COMBINE TRANSFORM TESSELLATE PATTERNS
- G 47 RECTANGLES COMPOSITE
- G 48 RIGHT STRAIGHT POINT OPPOSITE
- G 49 VOLUME ROWS/LAYERS CUBIC LIQUID
- G 50 3-D OBJECTS PROPERTIES CROSS-SECTIONS
- G 51 MASS CONVERT
- G 52 PERCENTAGE DISCOUNTS
- G 53 MD 12 PROPERTIES EVEN ODD
- G 54 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- G 55 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- G 56 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- G 57 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- G 58 MEDIA DATA MISLEADING BIAS CLAIMS

**YEAR 2:**

- M 1 DIVIDE IN 2 WAYS QUOTATIVE & PARTITIVE
- M 2 COMPARE MASS THROUGH HEFTING
- M 3 F 1 HALF OF A LENGTH & A HALFWAY POINT
- M 4 GATHER DATA - DISPLAY LISTS TABLES GRAPHS
- M 5 MULTIPLY DIVIDE BY DOUBLING & HALVING
- M 6 MAPS INTERPRET CREATE DIRECTIONS
- M 7 VOLUME OF OBJECTS
- M 8 COMPARE MASS THROUGH HEFTING
- M 9 3 DIMENSIONS 2-D SHAPES SIDES
- M 10 LENGTH MULTIPLE SINGLE INFORMAL UNITS
- M 11 AREA USING INFORMAL UNITS
- M 12 SURFACES & LINES ON 3D OBJECTS
- M 13 VOLUME CUBES LIQUID INFORMAL UNIFORM
- M 14 F 2 SUBDIVIDE LENGTHS - HALVES QUARTERS
- M 15 MASS INFORMAL EQUAL ARM BALANCE
- M 16 TRANSLATE REFLECT ROTATE
- M 17 LENGTH TAPE MEASURE INFORMAL TO FORMAL
- M 18 SHAPES STRAIGHT CURVED LINES SIDES
- M 19 AREAS SQUARE UNITS IN ARRAY
- M 20 VOLUME INFORMAL BLOCKS LIQUID
- M 21 3D OBJECT PARTS 2D SHAPE FLAT SURFACE
- M 22 F 4 HALF QUARTER 3 QUARTER FULL TURNS
- M 23 MASS UNIFORM INFORMAL UNITS
- M 24 DESCRIBE CHANCE IN EVERYDAY EVENTS
- M 25 AREA SQUARE CENTIMETRES METRES
- M 26 ANGLES RIGHT SMALL LARGE TURNS
- M 27 2D SHAPES FEATURES TRANSFORM SYMMETRY
- M 28 3-D OBJECTS FEATURES NETS
- M 29 VOLUME METRIC LIQUID & CUBIC UNITS
- M 30 MASS METRIC UNITS + SCALES
- M 31 LENGTH PERIMETER CONVERT M - CM - MM
- M 32 2D COMPOSITE SYMMETRY ROTATIONAL LINE
- M 33 ANGLES TURN ARMS VERTEX TYPES
- M 34 AREA INFORMAL - FORMAL UNITS
- M 35 3D OBJECTS COMPOSITE VIEWS
- M 36 VOLUME LIQUID SCALED DEVICE METRIC
- M 37 MASS METRIC SCALES FRACTIONS
- M 38 ANGLES PROTRACTOR TESSELLATE BY SUM
- M 39 SIDE ANGLE PROPERTIES TRANSFORM EFFECTS
- M 40 LENGTH METRIC UNITS CALCULATE PERIMETER
- M 41 AREA METRIC REGULAR IRREGULAR
- M 42 THREE-DIMENSIONAL OBJECTS NETS
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- M 49 VOLUME ROWS/LAYERS CUBIC LIQUID
- M 50 3-D OBJECTS PROPERTIES CROSS-SECTIONS
- M 51 MASS CONVERT
- M 52 PERCENTAGE DISCOUNTS
- M 53 MD 12 PROPERTIES EVEN ODD
- M 54 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- M 55 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- M 56 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- M 57 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- M 58 MEDIA DATA MISLEADING BIAS CLAIMS

**YEAR 3:**

- F 1 GIVE AND FOLLOW DIRECTIONS
- F 2 TELL TIME ON THE HOUR
- F 3 FRACTIONS BY HALVING - HALVES, QUARTERS, EIGHTHS
- F 4 GATHER DATA - DISPLAY LISTS TABLES GRAPHS
- F 5 FRACTIONS DIVISION MULTIPLES REMAKE WHOLE
- F 6 MAPS INTERPRET CREATE DIRECTIONS
- F 7 VOLUME OF OBJECTS
- F 8 COMPARE MASS THROUGH HEFTING
- F 9 3 DIMENSIONS 2-D SHAPES SIDES
- F 10 LENGTH MULTIPLE SINGLE INFORMAL UNITS
- F 11 AREA USING INFORMAL UNITS
- F 12 SURFACES & LINES ON 3D OBJECTS
- F 13 VOLUME CUBES LIQUID INFORMAL UNIFORM
- F 14 F 2 SUBDIVIDE LENGTHS - HALVES QUARTERS
- F 15 MASS INFORMAL EQUAL ARM BALANCE
- F 16 TRANSLATE REFLECT ROTATE
- F 17 LENGTH TAPE MEASURE INFORMAL TO FORMAL
- F 18 SHAPES STRAIGHT CURVED LINES SIDES
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- F 55 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- F 56 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- F 57 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- F 58 MEDIA DATA MISLEADING BIAS CLAIMS

**YEAR 4:**

- P 1 POSITION OF OBJECT IN RELATION TO ANOTHER
- P 2 MISSING ELEMENT - PART THAT REPEATS
- P 3 GIVE AND FOLLOW DIRECTIONS
- P 4 POSITION DIRECTIONS TO & FROM SELF
- P 5 DIRECTIONS FROM SELF OTHERS
- P 6 MAPS INTERPRET CREATE DIRECTIONS
- P 7 VOLUME OF OBJECTS
- P 8 COMPARE MASS THROUGH HEFTING
- P 9 3 DIMENSIONS 2-D SHAPES SIDES
- P 10 LENGTH MULTIPLE SINGLE INFORMAL UNITS
- P 11 AREA USING INFORMAL UNITS
- P 12 SURFACES & LINES ON 3D OBJECTS
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- P 34 AREA INFORMAL - FORMAL UNITS
- P 35 3D OBJECTS COMPOSITE VIEWS
- P 36 VOLUME LIQUID SCALED DEVICE METRIC
- P 37 MASS METRIC SCALES FRACTIONS
- P 38 ANGLES PROTRACTOR TESSELLATE BY SUM
- P 39 SIDE ANGLE PROPERTIES TRANSFORM EFFECTS
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- P 41 AREA METRIC REGULAR IRREGULAR
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- P 51 MASS CONVERT
- P 52 PERCENTAGE DISCOUNTS
- P 53 MD 12 PROPERTIES EVEN ODD
- P 54 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- P 55 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- P 56 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
- P 57 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- P 58 MEDIA DATA MISLEADING BIAS CLAIMS

**YEAR 5:**

- AS 1 CONTINUE PATTERNS - PART THAT REPEATS
- AS 2 MISSING ELEMENT - PART THAT REPEATS
- AS 3 GIVE AND FOLLOW DIRECTIONS
- AS 4 POSITION DIRECTIONS TO & FROM SELF
- AS 5 DIRECTIONS FROM SELF OTHERS
- AS 6 MAPS INTERPRET CREATE DIRECTIONS
- AS 7 VOLUME OF OBJECTS
- AS 8 COMPARE MASS THROUGH HEFTING
- AS 9 3 DIMENSIONS 2-D SHAPES SIDES
- AS 10 LENGTH MULTIPLE SINGLE INFORMAL UNITS
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- AS 12 SURFACES & LINES ON 3D OBJECTS
- AS 13 VOLUME CUBES LIQUID INFORMAL UNIFORM
- AS 14 F 2 SUBDIVIDE LENGTHS - HALVES QUARTERS
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- AS 57 F 14 1-TO-MANY COMPARE DISTRIBUTIONS VARIATIONS
- AS 58 MEDIA DATA MISLEADING BIAS CLAIMS

**YEAR 6:**

- AS 59 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- AS 60 MULTIPLY & DIVIDE DECIMALS BY WHOLE NUMBERS
- AS 61 F 10 FRACTIONS DECIMALS PERCENTAGES QUANTITIES
- AS 62 PERCENTAGE DISCOUNTS
- AS 63 ADD & SUBTRACT DECIMALS ESTIMATION STRATEGIES
- AS 64 F 12 ADD & SUBTRACT FRACTIONS EQUIVALENCE
- AS 65 MD 18 ORDER OF OPERATIONS TO CREATE EQUATIONS
- AS 66 F 13 PROBABILITIES PERCENTAGE FRACTION DECIMAL
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