Mathseeds

Placement Test Overview: *What does your student's placement level mean?*

The Mathseeds Placement Test assesses what students already know. This ensures that each student begins at the right level.

Kindergarten Lessons

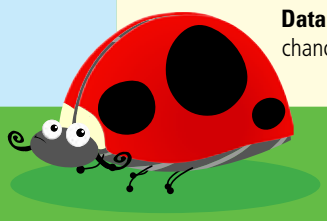
If the student was placed between lesson 1 and 41 – they have been placed in the Kindergarten level of the program.

Placement lesson	What do they know?	Next 10 lessons	What will they study next?
1	Starting from the beginning, assuming no prior knowledge.	**1-10**	**Numbers:** 1-5, numerals & words, sequence, count items. **Shapes:** name & sort circles, squares, triangles. **Colours:** identify primary colours, mix secondary colours.
11	**Number:** numbers 1-5 **Geometry:** 2D–circle, square, triangle	**11-20**	**Numbers:** 0-10, numerals & words, sequence, count items. **Measurement:** comparative size language–big & small. **Shapes:** name rectangles, sort basic 2D shapes.
21	**Number:** numbers 0-10 **Measurement:** size **Geometry:** 2D–circle, square, triangle, rectangle	**21-30**	**Numbers:** 0-10, sequence forward & back, compare groups, use number lines, subitise small groups. **Patterns:** 2D shape, object and colour patterns. **Addition:** to 6, count to add & write equations. **Measurement:** comparative length & mass language. **Shapes:** name & sort 2D shapes, identify types of lines.
31	**Number:** numbers 0-10 **Operations:** addition to 6 **Measurement:** basic concepts of size, length, mass **Geometry:** basic 2D shapes, lines, patterns	**31-40**	**Numbers:** 0-10, sequence forward & back, estimate quantities, compare groups, subitise, revise words 0-10. **Patterns:** 2D shape, size, object and colour patterns. **Addition:** to 10, pairs that add to 10, add on a number line. **Measurement:** comparative capacity language. **Time:** order events, comparative time language. **Shapes:** name & sort cubes & spheres, identify–stack or roll.
41	**Number:** numbers 0-10 **Operations:** addition to 10 **Measurement:** basic concepts of size, length, mass, capacity & time **Geometry:** basic 2D shapes, 3D–cubes & spheres, patterns	**41-50**	**Numbers:** 0-20, numerals & words, sequence, compare groups & numbers, compose teen numbers into 10 & 1s, count along number lines. **Addition:** to 10, find pairs that add to 10, count to add, write equations, double numbers 1-5. **Time:** days of the week. **Shapes:** name & sort cones & cylinders.

Year 1 Lessons

If the student was placed between lesson 51 and 91 – they have been placed in the First Year level of the program.

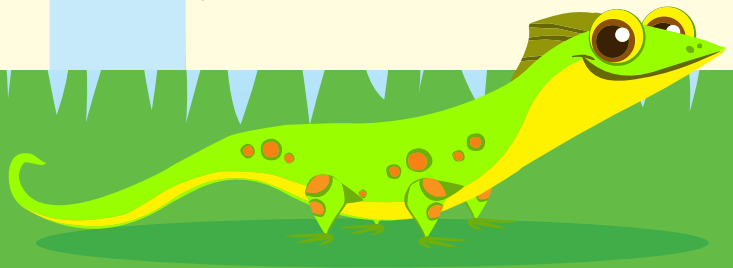
Placement lesson	What do they know?	Next 10 lessons	What will they study next?
51	**Number:** numbers 0-20 **Operations:** addition to 10 **Measurement:** basic concepts of length, mass, capacity & time **Geometry:** 2D & 3D shapes	**51-60**	**Numbers:** to 30, compose two-digit numbers using 10s & 1s. **Addition:** to 10, with 3 groups, count on to add, solve problems using objects. **Subtraction:** to 10, solve problems with objects & equations, find the unknown number in an equation, use number lines. **Measurement:** comparative language & count squares for area. **Time:** tell & write o'clock & half-past times. **Shapes:** name & sort 2D shapes, compose shapes, identify 2D vs 3D. **Position:** distance & position language, give & follow directions, left & right.
61	**Number:** numbers 0-30 **Operations:** addition & subtraction to 10 **Measurement:** basic concepts of length, mass, & capacity, informal measurement of area, time to the half-hour **Geometry:** 2D & 3D shapes, position & direction	**61-70**	**Numbers:** to 40, ordinal numbers to 10. **Fractions:** wholes, halves & quarters, of shapes & objects, & notation. **Addition:** to 30, with 3 numbers, count on to add, solve problems using number lines & counting by 2s. **Subtraction:** to 10, count the difference, use number lines. **Money:** count & order money, solve money addition problems. **Time:** tell & write o'clock & half-past times. **Shapes:** 3D shapes slide/stack/roll, count sides & corners, compose shapes. **Position:** using ordinal numbers.
71	**Number:** numbers 0-40, ordinal numbers to 10, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** addition to 30 & subtraction to 10 **Measurement:** basic length, mass & capacity, informal units for area, time to the half-hour, understand money **Geometry:** 2D & 3D shapes, position & direction	**71-80**	**Numbers:** to 50, skip count by 2s, 5s & 10s, on objects, number lines & 100 chart. **Addition:** double numbers 1-10, use = to mean two things are 'the same'. **Division & multiplication:** grouping & sharing, share collections into equal groups, total a set of equal groups. **Measurement:** comparative mass language, balance scale. **Position:** give & follow directions, describe position. **Data:** make, use & interpret tables, tally marks & picture graphs.
81	**Number:** numbers 0-50, skip counting, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** add to 30, subtract to 10, group & share **Measurement:** basic length & capacity, informal units for area & mass, time to the half-hour, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations	**81-90**	**Numbers:** to 100, compose 2-digit numbers using 10s & 1s, skip count. **Addition:** trade ten 1s for a 10 to add. **Subtraction:** to 20, find the difference between groups & on number lines. **Money:** identify money, make amounts, solve money problems. **Measurement:** measure & compare lengths & capacities using informal units. **Time:** tell & write o'clock & half-past times, add hours to a time. **Chance:** use chance language–will/won't/might happen, possible/impossible, more/less likely.
91	**Number:** numbers 0-100, skip counting, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** add to 50, subtract to 20, group & share **Measurement:** informal units for length, mass, capacity & area, time to the half-hour, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance language	**91-100**	**Addition:** near doubles and bridging to ten strategies, two-digit + one-digit, add multiples of ten to two-digit numbers. **Subtraction:** take multiples of ten away from two-digit numbers, find the unknown number in an equation. **Number fact families:** commutative property of addition, relate addition & subtraction sums, use these to solve problems. **Money:** calculate change from $10 or $20. **Shapes:** identify prisms, recognise 2D shapes as faces of prisms. **Position:** describe position, use the words clockwise & anticlockwise. **Data:** make & interpret tables, tally marks & picture graphs.



Year 2 Lessons

If the student was placed between lesson 101 and 141 – they have been placed in the Second Year level of the program.

Placement lesson	What do they know?	Next 10 lessons	What will they study next?
101	**Number:** numbers 0-100, skip counting, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** add & subtract to 100, group & share **Measurement:** informal units for length, mass, capacity & area, time to the half-hour, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance language	**101-110**	**Numbers:** to 1000, expanded form, compose 3-digit numbers using 100s, 10s & 1s, skip count by 100s, odd & even numbers. **Addition:** add 1, 10 or 100 to a 3-digit number, add 9 strategy, rules for adding odd & even numbers. **Subtraction:** subtract 1/10/100 from 3-digit number, rules to subtract odd & even numbers, jump on number line to subtract. **Measurement:** estimate, measure & compare lengths in metres. **Time:** calendar–identify dates & days of week, order months. **Shapes:** slide, flip & turn 2D shapes, quarter & half turns. **Chance:** equal chance, record outcomes in a tally table.
111	**Number:** 0-1000, skip count, odd & even, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** +/– to 1000, group & share **Measurement:** measure length in metres, informal units for mass, capacity & area, dates, time to the half-hour, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance outcomes	**111-120**	**Number patterns:** skip count forward & back by 3, 5, 10, 100. **Addition & subtraction:** solve word problems, addition algorithm. **Multiplication:** share collections into equal groups or rows, skip count to find total, use repeated addition, arrays & equations. **Measurement:** measure & compare areas & volumes using informal units. **Time:** tell & write quarter-hour times, digital & analogue & words. **Shapes:** identify the rhombus, recognise parallel lines.
121	**Number:** 0-1000, skip count, odd & even, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** +/– to 1000, group & share, basic multiplication **Measurement:** measure length–m, informal units for mass, capacity, volume & area, dates, time to the quarter-hour, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance outcomes	**121-130**	**Numbers:** <, =, > compare numbers to 1000, rounding two-digit numbers. **Addition:** use addition algorithm up to 3-digits. **Subtraction:** use subtraction algorithm up to 2-digits – 1-digit. **Multiplication:** solve word problems. **Money:** make equivalent amounts of money. **Measurement:** measure & compare lengths in centimetres. **Time:** tell & write 5 minute times, calculate elapsed time. **Shapes:** identify different views of 3D shapes, count vertices.
131	**Number:** 0-1000, skip count, odd & even, rounding, fractions $\frac{1}{2}$, $\frac{1}{4}$ **Operations:** +/– to 1000, group & share, basic multiplication **Measurement:** measure length–m & cm, informal units for mass, capacity, volume & area, dates, time to 5 mins, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance outcomes	**131-140**	**Fractions:** halves, quarters, eighths, thirds of shapes & groups & objects, fraction notation – denominators. **Number patterns:** identify addition & subtraction patterns. **Subtraction:** use subtraction algorithm up to 3-digit numbers. **Division:** divide a collection into groups, write division equations, jump along number lines to divide. **Measurement:** measure mass with informal units, balance scale. **Data:** record measurements as tallies & put in a picture graph. **Problem solving:** work backwards, make a table, 2-step problems.
141	**Number:** 0-1000, skip count, odd & even, rounding, fractions $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{3}$ **Operations:** +/– to 1000, +/– number patterns, basic × & ÷, problem solving **Measurement:** measure length–m & cm, informal units for mass, capacity, volume & area, dates, time to 5 mins, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance outcomes	**141-150**	**Addition & subtraction:** fluent facts to 20, +/– 3-digit numbers, mentally +/– 10 & 100 to 3-digits, add up to four 2-digit numbers. **Measurement:** measure length in metres; measure, make & compare areas in square units. **Shapes:** identify quadrilaterals, their attributes, parallel lines. **Data:** make & interpret a column graph. **Problem solving:** length +/– problems, money problems, 2-step problems.



Year 3 Lessons

Placement lesson	What do they know?	Next 10 lessons	What will they study next?
151	**Number:** 0-1000, skip counting, fractions $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$, $\frac{1}{3}$ **Operations:** +/– to 1000, +/– number patterns, basic × & ÷, problem solving **Measurement:** measure length–m & cm, informal units for mass, capacity, volume & area, dates, time to 5 mins, money calculations **Geometry:** 2D & 3D shapes, position & direction **Data:** simple data representations, chance outcomes	**151-160**	**Numbers:** to 10 000, sequence, skip count by 10s, 100s & 1000s. **Fractions:** $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{6}$, $\frac{1}{8}$ & mixed numbers. **Number patterns:** identify + & – patterns, explore Fibonacci sequence, follow & identify pattern rules. **Multiplication:** use grouping, repeated addition & multiplication equations, explore 2× & 4× tables. **Money:** make equivalent amounts, calculate change. **Measurement:** measure capacity in litres & millilitres, know that length x width = area of a rectangle, use square metres. **Geometry:** understand symmetry, identify symmetrical items.
161	**Number:** 0-10 000, skip counting, simple fractions & mixed numbers **Operations:** +/– to 1000, +/– number patterns, basic × & ÷, 2× & 4× tables, problem solving **Measurement:** measure length–m & cm, capacity–L & mL, area–m^2, informal units for mass & volume, dates, time to 5 mins, money calculations **Geometry:** 2D & 3D shapes, position & direction, symmetry **Data:** simple data representations, chance outcomes	**161-170**	**Numbers:** place value to 9999, compare 4-digit numbers, odd & even numbers, explore odd & even number patterns. **Addition & subtraction:** +/– number facts as parts and wholes, equivalent number sentences, addition algorithms–regrouping. **Division & multiplication:** group & share, division equations, explore ×/÷ related facts, solve ×/÷ word problems. **Time:** tell & write time to the minute. **Shapes:** explore prisms & pyramids. **Position:** maps with grid coordinates & compass directions. **Chance:** predict outcomes, record results, compare.
171	**Number:** 0-10 000, skip counting, place value, odd & even, simple fractions **Operations:** +/– to 1000, +/– number patterns, basic × & ÷, 2× & 4× tables, +/– & ×/÷ related facts, problem solving **Measurement:** measure length–m & cm, capacity–L & mL, area–m^2, informal units for mass & volume, dates, time to the minute, money calculations **Geometry:** 2D & 3D shapes, map reading, symmetry **Data:** data representations, chance outcomes & results	**171-180**	**Fractions:** fractions of collections, denominator = number of groups, recognise equivalent fractions. **Addition & subtraction:** compensation strategy, subtraction algorithms with 3-digits, introduce regrouping. **Multiplication:** explore 8×, 3× & 6× tables, understand associative & distributive properties of multiplication. **Measurement:** measure & compare mass in grams & kilograms. **Time:** compare duration in mins & hours, add mins & hours. **Geometry:** explore angles, compare their sizes. **Data:** fill & interpret frequency chart & scaled picture graph.
181	**Number:** 0-10 000, skip counting, simple fractions **Operations:** +/– to 1000, +/– number patterns, basic × & ÷, times tables, +/– & ×/÷ related facts, problem solving **Measurement:** measure length–m & cm, capacity–L & mL, area–m^2, mass–g & kg, informal units for volume, dates, time to the minute, money calculations **Geometry:** 2D & 3D shapes, map reading, symmetry, angles **Data:** data representations, scaled graphs, chance outcomes & results	**181-190**	**Fractions:** add simple fractions with same denominator. **Multiplication & division:** commutative property of multiplication, ×/÷ number fact families, multiplication vertical algorithms, ÷ problems with unknown quotient. **Measurement:** measure in metres, centimetres & millimetres. **Shapes:** categories & attributes of 2D shapes. **Data:** fill in a tally chart & a scaled column graph, interpret scaled graphs. **Problem solving:** addition & subtraction, combinations of all 4 operations, calculations in time problems.
191	**Number:** 0-10 000, skip counting, simple fractions **Operations:** +/– to 1000, +/– number patterns, × & ÷ calculations, times tables, +/– & ×/÷ related facts, problem solving **Measurement:** measure length–m, cm & mm, capacity–L & mL, area–m^2, mass–g & kg, informal units for volume, dates, time to the minute, time & money calculations **Geometry:** 2D & 3D shapes, map reading, symmetry, angles **Data:** data representations, scaled graphs, chance outcomes & results	**191-200**	**Numbers:** rounding to the nearest hundred. **Fractions:** whole numbers as fractions. **Addition & subtraction:** fluently add & subtract within 1000. **Multiplication & division:** multiples of 10 × 1-digit, fluently multiply & divide within 100. **Measurement:** add side lengths to find perimeters, explore area with perimeter, calculate areas using an additive approach. **Data:** record measurement data in whole numbers, halves & quarters in a graph, interpret the data. **Problem solving:** fraction, division & area problems.

If you would like to change the level that a student is working on, you can do this in the Manage Lessons section of the Teacher Dashboard.