🔢 Primary Maths Progression Statements

Year	How Maths Builds on Previous Knowledge
1	• Builds early foundations: counting in 2s, 5s, 10s; simple addition and subtraction using objects. • Learns basic fractions (½ and ¼) using food and real objects. • Introduced to early measures (cups, jugs, full/empty comparisons) through cooking and measuring ingredients. • Applies money and counting in a real-world *Class Café* project (totals, coins, practical problem solving).
2	• Extends counting → reading/writing numbers to at least 200 with place value of hundreds, tens and ones. • Builds on Y1 grouping/sharing to consolidate multiplication & division (2, 5, 10) and apply them in contexts like travel, packing and grouping items. • Applies number to measuring (timelines, festival dates, o'clock/half past) and simple data. • Strengthens functional links in projects like *Around the World* (maps, distances, ordering 3-digit numbers).
3	• Extends place value to 1,000, building from Y2's 3-digit intro using dienes, grids and number lines. • Strengthens comparison & ordering using <, >, = and reasoning with digits and place value. • Develops fraction understanding: equivalence (½ = 2/4), ordering fractions, number line placement. • Measurement builds into map skills—distance, ordering lengths, interpreting simple scale maps.
4	• Builds place value to 10,000 from Y3's secure 1,000: flexible partitioning, number lines, multiple representations. • Deepens operations with 4-digit formal addition linked to real contexts (library totals, reading data). • Measurement extends to *perimeter & area* with rectilinear shapes and composite shapes, building on Y3 length measurement. • Applies multiple operations in end-of-year eco projects integrating graphs, measures, money and reasoning.
5	• Builds on Y4 place value → secure understanding to 10,000 and beyond, partitioning in flexible ways and applying to comparison/ordering of large contextual numbers (library/page counts). • Deepens multiplication/division using factors, multiples, primes and LCM ideas in movement-based tasks. • Extends fractions → decimals, scaling and converting units using multiplying/dividing by 10/100/1000, applied in travel/speed contexts. • Applies perimeter/area in eco-garden design and functional contexts.
6	• Builds advanced number fluency with Roman numerals and secure rules of numeral formation based on Y5 place value security. • Extends Y5 fractions → complex fractions of amounts, non-unit fractions and reasoning using shapes and sets. • Strengthens division and fact family relationships (÷3, ÷4, ÷8) using deeper conceptual reasoning. • Applies all four operations to multi-step problems with bar models, strategy choice and justification. • Completes large functional mathematical projects (journeys, map distances, water/food supply planning) demonstrating independence and mathematical decision-making.

📌 Place Value Progression

Year	Progression
Y1	Counts and orders numbers to 20; introduces tens/ones using practical equipment.
Y2	Reads and writes numbers to 200; recognises 100s, 10s and 1s; compares and orders 3-digit numbers.
Y3	Extends to 1,000; uses number lines and dienes; partitions flexibly (e.g., 300 + 40 + 6).
Y4	Builds to 10,000; fluent partitioning; rounding and comparing 4-digit numbers.
Y5	Extends to 1,000,000; negative numbers; interprets larger contextual values (distances, populations).
Y6	Uses Roman numerals; works confidently to 10,000,000; interprets large-scale data (climate, maps, population).

➕ Addition & Subtraction Progression

Year	Progression
Y1	Adds/subtracts within 20 using objects and pictorial methods.
Y2	Adds/subtracts 2-digit numbers using partitioning and number lines.
Y3	Adds/subtracts 3-digit numbers; begins using formal column methods.
Y4	Accurate column addition/subtraction with 4-digit numbers; applies in perimeter/area tasks.
Y5	Multi-step addition/subtraction problems; adds larger decimals (travel, time, scaling).
Y6	Tackles multi-operation reasoning problems; selects efficient strategies; justifies method choice.

✖ Multiplication & Division Progression

Year	Progression
Y1	Groups/shares practically; early repeated addition.
Y2	Begins fluent recall of 2, 5, 10; simple division as sharing.
Y3	3, 4, 8 times tables; arrays → short multiplication; division as grouping.
Y4	All tables to 12×12; scales/perimeter links; formal methods in context.
Y5	Factors/multiples; prime numbers; long multiplication; scaling tasks (maps, recipes).
Y6	Long division; multi-step multiplication/division problems; ratio reasoning.

🌓 Fractions, Decimals & Percentages Progression

Year	Progression
Y1	Halves and quarters of shapes/objects.
Y2	Unit fractions (½, ⅓, ¼, ⅕); simple equivalence using shapes.
Y3	Fractions as numbers; equivalence (½ = 2/4); placing on number lines.
Y4	Adds/subtracts fractions with same denominator; explores tenths/hundredths.
Y5	Fraction → decimal conversions; percentages; ordering mixed fractions.
Y6	Complex fractions of amounts; operations with fractions; FDP equivalence reasoning; multi-step fraction problems.

📏 Measurement (Length, Mass, Capacity, Time, Perimeter & Area)

Year	Progression
Y1	Non-standard measurement (cubes/jugs); simple time (o'clock/half past).
Y2	Standard units (cm, m, g, ml); sequences of events; simple durations.
Y3	Compares/measures length; uses maps and scale ideas.
Y4	Perimeter and area of rectangles; converts between units; uses functional contexts.
Y5	Area of composite shapes; perimeter, scaling, conversions; measures in science/geography.
Y6	Area of triangles/parallelograms; multi-step conversions; map scale problems; real-life planning contexts.

📊 Statistics & Data Progression

Year	Progression
Y1	Sorts objects; simple tallying; pictograms with support.
Y2	Pictograms, block graphs; simple tables.
Y3	Bar charts, tallies, simple data interpretation (eco surveys).
Y4	Line graphs; comparing data; interpreting charts in reports.
Y5	Two-way tables; interpreting larger data sets; science experiment data.
Y6	Complex multi-step interpretation; charts from geographical/climate data; presenting data in reports.