KALEIDOSCOPE
Multi Academy Trust

Foundational Knowledge for Maths

Reception → Year 1	❑ I can subitise quantities up to 5 accurately ❑ I understand each number to 10 is made of smaller parts (composition) ❑ I can count reliably to at least 20 ❑ I can compare numbers and say which is more, less or the same ❑ I know number bonds to 5 and recognise some bonds to 10 ❑ I can say one more and one less than a number to 10 ❑ I understand that numbers represent quantities, not just counting words
Year 1 → Year 2	❑ I recall all number bonds to 10 without counting ❑ I understand teen numbers as 10 and some more ❑ I can add and subtract within 10 fluently ❑ I count forwards and backwards to 100 ❑ I understand the equals sign means “the same as” ❑ I can represent numbers using part–whole models ❑ I can explain my thinking using simple mathematical language
Year 2 → Year 3	❑ I fluently recall number bonds to 20 ❑ I understand the place value of 2-digit numbers ❑ I add and subtract 2-digit numbers using known facts and structure ❑ I understand multiplication as equal groups and arrays

KALEIDOSCOPE
Multi Academy Trust

Foundational Knowledge for Maths

	❑ I know doubles and near doubles ❑ I recognise inverse relationships (+/−, ×/÷) ❑ I can choose efficient strategies and explain why
Year 3 → Year 4	❑ I understand place value to 1,000 ❑ I recall 2, 3, 4, 5, 8 and 10 times table ❑ I add and subtract using efficient written methods ❑ I understand fractions as numbers (not just parts of shapes) ❑ I know fact families (e.g. 6 × 4, 4 × 6, 24 ÷ 6) ❑ I can solve multi-step problems with support
Year 4 → Year 5	❑ I automatically recall all times tables to 12 × 12 ❑ I use column methods accurately for all four operations ❑ I understand place value including tenths and hundredths ❑ I recognise and generate equivalent fractions ❑ I use efficient mental strategies alongside written methods ❑ I justify my methods using correct mathematical language

KALEIDOSCOPE
Multi Academy Trust

Foundational Knowledge for Maths

Year 5 → Year 6	❑ I calculate confidently with large numbers and decimals ❑ I understand fractions, decimals and percentages are connected ❑ I use long multiplication and long division accurately ❑ I understand proportional relationships ❑ I select efficient strategies independently ❑ I explain and justify reasoning clearly and precisely
Year 6 → Secondary	❑ I am fluent with all four operations ❑ I manipulate fractions, decimals and percentages confidently ❑ I understand ratio as a comparison of quantities ❑ I can solve algebraic problems with missing values ❑ I tackle multi-step problems independently ❑ I reason, generalise and explain methods clearly