

Year 6 Non-Negotiables 2023-2024
 Maths guidance year 6 (publishing.service.gov.uk)

	Objective
Autumn	• write numbers up to ten million in words and figures • use negative numbers in context, and calculate intervals across zero • Recognise the place value of each digit in numbers up to 10 million, including decimal fractions, and compose and decompose numbers up to 10 million using standard and non-standard partitioning. • compare numbers up to 10 000 000 • round any whole number to a required degree of accuracy • Multiply multi-digit numbers up to 4 digits by a two-digit whole number • Divide numbers up to 4-digits by a two-digit whole number using the formal written method of short division • Identify common factors, common multiples, and prime numbers • Find a % of a whole number • Increase and decrease numbers by a percentage • Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions • Read Roman numerals to 1000 (M). • Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding.
Spring	• Understand the relationship between powers of 10 from 1 hundredth to 10 million, and use this to make a given number 10, 100, 1,000, 1 tenth, 1 hundredth or 1 thousandth times the size (multiply and divide by 10, 100 and 1,000) • solve problems involving timetables • Identify the value of each digit in numbers given to three decimal places • Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. • Divide powers of 10, from 1 hundredth to 10 million, into 2, 4, 5 and 10 equal parts, and read scales/number lines with labelled intervals divided into 2, 4, 5 and 10 equal parts. • Use a given additive or multiplicative calculation to derive or complete a related calculation, using arithmetic properties, inverse relationships, and place-value understanding. • Recognise when fractions can be simplified, and use common factors to simplify fractions. • Express fractions in a common denomination and use this to compare fractions that are similar in value.
Summer	• Multiply simple pairs of proper fractions, writing the answer in its simplest form use their knowledge of the order of operations to carry out calculations involving the four operations • Divide proper fractions by whole numbers • Solve problems involving ratio relationships. • Compare fractions with different denominators, including fractions greater than 1, using reasoning, and choose between reasoning and common denomination as a comparison strategy. • Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems.

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