



Year 5 – Key Skills

COUNTING	<ul style="list-style-type: none"> Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000 Count on/back in equal steps (e.g. 25, 100, 0.1, 0.2), including beyond zero.
COMPARING NUMBERS	<ul style="list-style-type: none"> Read, write, order and compare numbers to at least 1 000 000 Give one or more numbers lying between two others. Use symbols $<$, $=$, $>$, \geq, \leq. Calculate a temperature rise or fall across 0°C.
READING & WRITING NUMBERS	<ul style="list-style-type: none"> Read and write whole numbers 100 000 Read Roman numerals to 1 000 (M) and recognise years written in Roman numerals.
ROUNDING	<ul style="list-style-type: none"> round any number up to 1 000 000 to the nearest 10, 100, 1 000, 10 000 and 100 000 Round any three or four digit number to the nearest 10, 100 or 1000.
NUMBER BONDS	<ul style="list-style-type: none"> Decimal complements within 1 and 10. Recall addition and subtraction facts for each number up to 20. Find pairs with sum of 100; derive multiples of 50 with a sum of 1000.
MENTAL CALCULATION	<ul style="list-style-type: none"> add and subtract numbers mentally with increasingly large numbers multiply and divide numbers mentally drawing upon known facts Multiply or divide whole numbers up to 10 000 by 10 or 100. multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Multiply and divide any positive whole number up to 10 000 by 10 or 100 and understand the effect. Express a quotient as a fraction, or as a decimal when dividing a whole number by 2, 4, 5, 10 or when dividing £ and pence. Double or halve any number up to 100. Double any whole number to 100 and multiples of 10 to 1000. Use doubling to multiply two-digit numbers by 4. Identify near doubles e.g. $1.5 + 1.6$.
WRITTEN METHODS	<ul style="list-style-type: none"> Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Extend written methods \pm of two integers less than 10 000 and $+$ and $-$ of pair of decimals both with 1 or 2 decimal places. divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context
INVERSE OPERATIONS, ESTIMATING &	<ul style="list-style-type: none"> Check calculations using inverse operation, including with calculator. Check by adding in reverse order, including with calculator.

CHECKING ANSWERS	
MULTIPLICATION & DIVISION FACTS	<ul style="list-style-type: none"> • Multiplication & Division facts e.g x18 by using x9 and multiplying. • Recall facts in x2, x3, x4, x5, x6, x10 tables and derive division facts. • Recall facts in x7, x8 x9 x11 and x12 tables, squares to 10 x 10.
PROPERTIES OF NUMBERS: MULTIPLES, FACTORS, PRIMES, SQUARE & CUBE NUMBERS	<ul style="list-style-type: none"> • Know square numbers to 10 x 10 • Identify factors of two- digit numbers. • Find all the pairs of factors of any number up to 100.
EQUATIONS	<ul style="list-style-type: none"> • solve problems, <i>including missing number problems, using number facts, place value, and more complex addition and subtraction.</i> • Begin to use brackets. • <i>solve problems, including missing number problems, involving multiplication and division, including integer scaling</i>
FORMULAE	<ul style="list-style-type: none"> • <i>Perimeter can be expressed algebraically as $2(a + b)$ where a and b are the dimensions in the same unit.</i> • <i>(Copied from NSG measurement)</i>
COUNTING IN FRACTIONAL STEPS	<ul style="list-style-type: none"> • count up and down in hundredths
COMPARING FRACTIONS	<ul style="list-style-type: none"> • compare and order unit fractions $\frac{1}{3}$, $\frac{1}{4}$ and $\frac{1}{2}$, and fractions with the same denominators • Change an improper fraction to a mixed number. • Order a set of fractions including mixed numbers, position on a number line. • Relate fractions to division and find simple fractions, including $\frac{1}{10}$ and $\frac{1}{100}$, of numbers and quantities.
COMPARING DECIMALS	<ul style="list-style-type: none"> • compare numbers with the same number of decimal places up to two decimal places • Use decimal notation for tenths and hundredths, know what each digit represents in numbers with up to two decimal places.
EQUIVALENCE	<ul style="list-style-type: none"> • recognise and show, using diagrams, families of common equivalent fractions • recognise and write decimal equivalents of any number of tenths or hundredths • recognise and write decimal equivalents to $\frac{1}{4}$; $\frac{1}{2}$; $\frac{3}{4}$
POSITION, DIRECTION & MOVEMENT	<ul style="list-style-type: none"> • describe positions on a 2-D grid as coordinates in the first quadrant • Recognise positions, read and plot co-ordinates in the first quadrant. • describe movements between positions as translations of a given unit to the left/right and up/down
IDENTIFYING SHAPES & THEIR PROPERTIES	<ul style="list-style-type: none"> • identify lines of symmetry in 2-D shapes presented in different orientations • Identify and recognise properties of rectangles. • Classify triangles: isosceles, equilateral, scalene, lines of symmetry.
COMPARING &	<ul style="list-style-type: none"> • compare and classify geometric shapes, including quadrilaterals and

CLASSIFYING	triangles, based on their properties and sizes
ANGLES	<ul style="list-style-type: none"> • identify acute and obtuse angles and compare and order angles up to two right angles by size • Use protractor to measure and draw acute and obtuse angles to 5°. • Calculate angles in a straight line.
MEASURING & CALCULATING	<ul style="list-style-type: none"> • Length: • Measure and draw lines to the nearest mm. • Convert larger to smaller units of length. Know mile. • Mass: • Use, read and write standard metric units of mass, abbreviations. Know relationships between them. Convert larger to smaller units of mass. • Capacity: • Use, read and write standard metric units of capacity, including abbreviations and pint, gallon. • Convert larger to smaller units of capacity, including gallons to pints.
TELLING THE TIME	<ul style="list-style-type: none"> • read, write and convert time between analogue and digital 12 and 24-hour clocks • Read the time on 24-hour digital clock, e.g. 19:53. • solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days