

<u>Year 6 – Key Skills</u>

COUNTING	• Count on/back in steps of 0.1, 0.2, 0.25, 0.5 and then back.
COMPARING	• Read, write, order and compare numbers up to 10 000000 and determine the
NUMBERS	value of each digit
	Order positive and negative whole numbers
	• Find the difference between a positive and a negative integer, or two
	negative integers, in the context such as temperature or a number line.
	Order a set of negative integers.
ROUNDING	 Round any whole number to a required degree of accuracy
	Round whole numbers to the nearest 10, 100, 1000.
NUMBER	• Find pairs with sum of 100; multiples of 50 with sum 1000, decimals with sum
BONDS	of 0.1, 1, 10
MENTAL	 Add/subtract any pair of two-digit numbers including crossing 100;
CALCULATION	• Derive sums and differences, e.g. 760 ± 280.
	Add/subtract a multiple of 10, 100, 1000 and adjust.
	Multiply or divide whole numbers by 10, 100 or 1000.
	 Understand and use relationships between the 4 operations, and the principles of the arithmetic laws
	 Use related facts and doubling or balving org, balve an even number, double
	the other multiply by 25 by x 100 then divide by 4
	 Express a quotient as a fraction or as a decimal rounded to 1 decimal place
	Dividing \pounds and pence by a two-digit number to give \pounds and pence.
MULTIPLICATI	 Recall multiplication and division facts to 12 x 12.
ON & DIVISION	 Use known facts and place value to multiply and divide mentally.
FACTS	
WRITTEN	• Multiply multi-digit numbers up to 4 digits by a two-digit whole number using
CALCULATION	the formal written method of long multiplication
	• Divide numbers up to 4-digits by a two-digit whole number using the formal
	written method of short division and interpret remainders as whole number
	remainders, fractions, or by rounding, as appropriate for the context
PROPERTIES	identify common factors, common multiples and prime numbers
OF NUMBERS:	• Give pairs of factors for whole numbers to 100. Use tests of divisibility.
MULTIPLES,	Recall squares to 12 x 12.
PACIORS,	Find simple common multiples. Know tests of divisibility.
SOLIARE &	Recognise primes to at least 20. Find prime factors.
CUBE	Factorise numbers to 100 into prime factors.
NUMBERS	
EQUATIONS	Express missing number problems algebraically
	Use brackets.
COUNTING IN	• Count up and down in 1/2, 1/4, etc using whole numbers and decimal numbers.
FRACTIONAL	
STEPS	
RECOGNISING	Recognise equivalent fractions.
FRACTIONS	Know simple fractions as percentages; find simple percentages.
	Understand percentage as the number of parts in every 100.

COMPARING	compare and order fractions, including fractions >1
FRACTIONS	Change an improper fraction to a mixed number and vice versa.
	Order fractions by converting to common denominator, and position them
	on a number line.
	Express simple fractions as percentages.
	Find simple percentages of whole number quantities, include using calculator
COMPARING	• identify the value of each digit in numbers given to three decimal places
DECIMALS	• Multiply and divide decimals by 10 or 100, and integers by 1000, and explain
	the effect.
	• Give a decimal lying between two others e.g. 3.4 and 3.5.
	 Order a set of mixed numbers or measurements with up to 3 decimal places. Dound a number to the pagest tenth or negrest whole number.
	Round a number to the hearest tenth of hearest whole number.
EQUIVALENCE	 Use common factors to simplify fractions; use common multiples to express fractions in the same denomination
	 associate a fraction with division and calculate decimal fraction equivalents
	$(0, \alpha, \alpha, \alpha, \alpha, \gamma)$ for a simple fraction (α, α^{3})
	• multiply simple pairs of proper fractions, writing the answer in its simplest
	form (e.g. $1/4 \times 1/2 = 1/8$)
OI DECIMAES	• divide proper fractions by whole numbers (e.g. $\frac{1}{3} \div 2 = \frac{1}{6}$)
RATIO &	• solve problems involving the relative sizes of two quantities where missing
PROPORTION	values can be found by using integer multiplication and division facts
	• solve problems involving the calculation of percentages [for example, of
	measures, and such as 15% of 360] and the use of percentages for
	comparison
	 Solve simple problems involving ratio and proportion.
DIRECTION 8.	 describe positions on the full coordinate grid (all four quadrants) Dead and plat as avdinates in all four quadrants
MOVEMENT	 Read and piol co-ordinates in all four quadrants. draw and translate simple shapes on the coordinate plane, and reflect them
	in the axes.
	 Recognise where a shape will be after two translations.
	 Recognise where shape will be after 90* rotation about vertex.
	• Recognise where shape will be after reflection in a line not parallel to a side or
	in two mirrors at 90*.
IDENTIFYING	Recognise, describe and build simple 3-D shapes, including making nets
SHAPES &	Illustrate and name parts of circles, including radius, diameter and
THEIR	circumference and know that the diameter is twice the radius
COMPARILES	
	 compare and classify geometric snapes based on their properties and sizes and find unknown angles in any triangles, guadrilaterals, and regular.
CLASSIFTING	and find offknown angles in any triangles, quadrilaterals, and regular
	 Classify quadrilaterals using side/angle properties
	classify quadriaterals using slac, angle properties.
MEASURING &	Length:
CALCULATING	Convert larger to smaller units of length and vice versa.
	Know mile and km equivalents.
	Mass:
	Use, read and write standard metric units of mass and abbreviations.
	Know relationships. Convert larger to smaller units and vice versa.

	• Know approximate metric equivalents for pounds (lb) and ounces (oz).
	Calculate, estimate and compare volume of cubes and cuboids using
	standard units, including cubic centimetres (cm ³) and cubic metres (m ³), and
	extending to other units [e.g. mm ³ and km ³].
CONVERTING	convert between miles and kilometres
	Convert between km, m, cm, mm.
	• Convert between kg and g, litres and millilitres, seconds and minutes.