

Year 5 term 1 and 2

Oral and Mental calculation

- Read numbers to 100 000 in numerals and words Write numbers to 100 000 in numerals and words
- ➤ Order and compare whole numbers up to 1 000 000, negative numbers and decimals with up to one decimal places on a number line.
- Record using < or >
- Know what each digit represents in numbers to 100 0000
- > Read and write decimal numbers to one place and know what each number represents.
- Count on or back in steps of 0.01, 0.1, 1, 10, 100 or 1000 from any number including decimals
- Count on and back in fractions
- Know by heart facts for all multiplication tables up to 12 x 12
- \triangleright Use facts to 12 x 12 and partitioning to multiply larger numbers or divide numbers larger than 144 mentally or supported by jottings .
- Add and subtract numbers mentally including decimals to one decimal place with jottings.
- Use partitioning to double or halve any number, including decimals to one decimal place.
- \triangleright Derive related facts from known facts (e.g. 6 x 0.2 linked to 6 x 2 or 1 +9 = 10 linked to 0.1 + 0.9 = 1)
- Multiply and divide whole numbers and decimals with up to one decimal place mentally by 10 or 100-link to scaling up or down,
- Round whole numbers to the nearest 10, 100 or 1000-link to number line
- > Round a number with up to one decimal places to the nearest whole number-link to number line.

Week Main focus of teaching 1 & 2 Number - place value and counting • Step 16 - read, write and order numbers to at least 10 000 and determine the value of each digit. • Step 16 - round any 5 digit number to the nearest 10, 100, 1000. Step 16 - read Roman numerals to 500 (I − D). • Step 16 - read, write, order and compare numbers with 1 d.p. in a 5 digit number on an empty number line -supported by images or manipulatives. • Step 16 - find complements for 1 with tenths (1 d.p.) • Step 16 - add and subtract 0.1 mentally to other numbers to 1 d.p. • Partition numbers into ones and tenths (for example, 6.4 = 6 + 0.4 • Step 16 - count forwards and backwards in 10 000 from any given number up to 1 000 000. Step 16 - count forwards and backwards through 0 including negative numbers. • Step 16-18 - Solve problems involving numbers with up to two decimal places. Addition and subtraction 3 **Step 16** - add and subtract numbers with 4 digits using formal written methods of columnar addition and subtraction where appropriate with or without regrouping any number of times. • Step 16 - add and subtract mentally a four digit number and multiple of 10, 100 or 1000 or a combination of these (E.g +/- 2300)

Step 16 - use rounding to estimate the answer to a calculation.

Estimate answers



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- Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method
- Step 16-18 Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

4 & 5 Multiplication and division

- Step 16 find factors for numbers to 50 and beyond.
- Step 16 recall and use multiplication and division facts for all tables up to 12 x
 12
- Step 16 divide 3-digit numbers by a 1-digit number using short division supported with concrete materials with remainders.
- Step 16 multiply up to 4 digit numbers by one digit numbers using the formal short multiplication method
- Step 16 tell whether a number up to 100 is a prime number and use the vocabulary of prime numbers
- Step 16 recognise square and cube numbers and their notation.
- Step 16 express non-integer answers to division as a remainder.
- Estimate answers
- Consider the most appropriate strategy to solve a calculation: calculate mentally, use a jotting or a written method.
- Step 16-18 Solve problems involving multiplication and division

6&7 Fractions & Decimals

- Step 16 Compare and order fractions whose denominators are the same using concrete materials and visual representations. E.g. on a number line.i.e. ½, 1/3, ½, 1/6 and 1/12
- Step 16 find equivalent fractions for a /x by multiplying the numerator and denominator by the same multiple.
- Step 16 understand mixed numbers and position them on a number line
- Step 16 recognise the percent symbol (%) and understand percent means number of parts per hundred
- Step 16 simplify fractions < 1 by dividing the numerator and denominator by the highest common factor.
- Read and write decimal numbers as fractions and vice versa
- Step 16-18 Solve problems involving fractions.

8 Geometry - Shape

- Step 16 identify and use mathematical language to describe properties of 3D shapes.
- Step 16 measure given angles using a protractor to the nearest 5°
- Step 16 describe mathematical properties of regular and irregular polygons



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	using precise vocabulary.
	 Step 16 - understand an angle on a point on a straight line is 180°
	Know how to use a protractor.
	Know angles are measured in degrees
9	Geometry - position and direction
	 Step 16 - describe position using coordinates on a 2D-grid in the first quadrant after a translation to the left, right, up or down.
10	Measurement - Time
	 Continue to read, write and convert time between analogue and digital 12 hour clocks.
	Know the link between the 12 hour and 24 hour clock
	 Read, write and convert time between analogue and digital 12 hour clock and 24 hour clock.
	 Complete, read and interpret information in timetables Solve problems involving interpreting time tables.
	 Solve problems involving converting between units of time e.g. seconds and minutes, half past 12 and 13:30.
11	Statistics
	 Step 16 - begin to choose which graphical representation to use with a set of continuous or discrete data.
	 Step 16 - know the vertical axis is referred to as the y axis and the horizontal axis is referred to as the x axis.
	 Step 16 - read data between marked scales on continuous graphs.
	 Step 16 - interpret and present discrete and continuous data using appropriate graphical methods.
	 Step 16-18 - Solve comparison, sum and difference problems using information presented in a line graph.
12	Measurement
	 Step 16 - convert and use fluently between units of length (mm, cm, m, km).
	 Step 16 - find the perimeter of a rectangle given the length and width.
	Step 16 - know and understand all metric units for measure
	Step 16 - beginning to estimate volume.