

Numeracy

Place value, ordering and rounding to include:

- Multiplying decimal numbers by 10 and 100.
- Recognising that multiplying by 100 is equivalent to multiplying by 10 and 10 again.
- Dividing decimals by 10 and 100.
- Recognising that dividing by 100 is equivalent to dividing by 10 and dividing by 10 again.
- Finding the difference between a positive and negative number and ordering positive and negative numbers.

Understanding x and ÷ to include:

- Recognising the relationship between multiplication and division.
- Rehearsing division, giving the remainder as a fraction.
- Dividing and giving the quotient as a decimal.

Mental Calculation Strategies to include:

- Multiply mentally TU x U or HTU x U by partitioning.
- Rehearsing the use of rounding strategies when multiplying.
- Rehearsing that from one multiplication or division fact, three others are possible.
- Rehearsing adding ThHTU + ThHTU and U.th + U.th.
- Estimating by approximating and checking the result of a calculation by estimating.

Making Decisions and Checking Results to include:

- Choosing and using appropriate number operations to solve problems.
- Checking these answers with an equivalent calculation.
- Checking these answers using a calculator and the inverse operation.
- Estimating by approximating and checking the result and explaining methods and working.

Money and 'real life' problems to include:

- Solving 'real life' problems involving doubling, halving, multiplying and using money.
- Identifying and using appropriate operations to solve word problems involving numbers and quantities based on 'real life' money situations using all four operations.
- Solving word problems involving addition and subtraction.

Fractions, decimals and percentages to include:

- Rehearsing converting a mixed number into an improper fraction and vice versa.
- Rehearsing decimal notation for tenths, hundredths, and introducing thousands.
- Knowing the value of each digit in a number with up to 3.d.p.
- Ordering a set of decimal numbers or measured up to 3.d.p.

Handling data to include:

- Constructing and interpreting line graphs in which intermediate values have meaning.
- Constructing and interpreting a conversion graph.
- Rehearse the concept of average and the meaning of mode as one type of average.
- Introducing the mean and median as types of average.
- Calculating different types of average for a set of data.

Measures, including problems about measures to include:

- Calculating the area of a rectangle and compound shapes that can be split into rectangles.
- Finding the surface area of a box where all sides are rectangles.
- Finding the area of a right angled triangle by knowing that it is half a rectangle.
- Rehearsing finding the perimeter of a rectangle and of compound shapes that can be split into rectangles.
- Knowing and using the relationship between units of time.
- Reading 24hr clock time and solving problems related to timetables.
- Appreciating different times and time zones around the world.

Pencil and paper procedures (+ and -) to include:

- Subtracting ThHTU – ThHTU using standard written methods.
- Subtracting U.th – U.th using standard written methods.

Pencil and paper procedures (x and ÷) to include:

- Multiplying ThHTU x U and HTU x U using standard written methods.

Shape and space to include:

- Rehearsing reading and plotting points in the first quadrant, extending to 4 quadrants.
- Rehearsing the concept of reflection and drawing shapes in one and two mirror lines.
- Rehearsing the concepts of rotation and translation.
- Drawing the position of a shape after translation and after a 90 or 180 degree rotation around a vertex.

Properties of numbers to include:

- Listing the pairs of factors of numbers up to 100.
- Recognise that a number with an odd number of factors is a square number.
- Introducing the concept of prime numbers and recognising prime numbers as numbers with two factors.

Reasoning about numbers to include:

- Solving mathematical problems or puzzles.

Using a calculator to include:

- Developing calculator skills and using a calculator effectively.

Ratio and Proportion to include:

- Beginning to understand the idea of proportion.
- Beginning to understand the idea of ratio and relate it to proportion.
- Solving simple problems involving the ideas of ratio and proportion.

Literacy

This term we will be learning ...

- ✓ To revise and consolidate particularly including unstressed vowels, prefixes, suffixes, common letter strings, origins and derivations of words and proverbs, word roots, spelling rules and exceptions, independent spelling strategies and use of mnemonics.
- ✓ To consolidate understanding and use of contraction of sentences.
- ✓ To understand features of official language, characteristic features and standard English.
- ✓ To identify and make use of complex sentences, main and connecting clauses, complex sentences and appropriate punctuation.
- ✓ To further investigate the use of and the terms active and passive verbs and conditionals, identifying examples, experiment and construct sentences using these forms.
- ✓ To analyse the successes of authors in evoking particular responses in audiences.
- ✓ To understand aspects of narrative structure including chapters, paragraphs and to use them in their own writing.
- ✓ To identify key features of different styles of literary texts and use as models to write, studying in depth one type and producing a piece of extended writing in this style.
- ✓ To recognise how arguments are constructed to be effective, including features of balanced arguments.
- ✓ To construct arguments effectively and write a balanced report of a controversial issue.
- ✓ To recognise how poets manipulate words and investigate humorous verse.
- ✓ To analyse how messages, moods, feelings and attitudes are conveyed in poetry.
- ✓ To read and interpret poems in which meanings are implied or multi-layered.
- ✓ To write commentaries or summaries creating views expressed by using particular expressions.

Key texts/Authors/Poets:

- ✓ FICTION AND POETRY: Longer established stories and novels selected from more than one genre; range of poetic forms.
- ✓ NON-FICTION: (i) discussion texts (ii) formal writing