

## NUMERACY Term 1 (An overview of Learning Objectives)

### **Place value, ordering and rounding to include:**

- Recognising place value in large numbers.
- Say the number 1 more or 1 less than any number up to one million.
- Reading, writing, ordering and comparing whole numbers up to 1 000,000 using  $<$ ,  $>$ ,  $=$  signs.
- Rounding whole numbers up to 10 000 to the nearest 10, 100 and 1000.

### **Understanding $\times$ and $\div$ to include:**

- Rehearsing the concept of a remainder when dividing, giving the remainder as either a fraction or a decimal.
- Rounding up or down after division, as appropriate.
- Doubling numbers up to 100 and halving even numbers below 200.
- Doubling multiples of 10 and 100 up to 1000.

### **Mental Calculation Strategies to include:**

- Mentally recalling multiplication facts up to  $10 \times 10$  and their corresponding divisions.
- Recognising the relationship between multiplication and division and be able to derive these facts mentally.

### **Making Decisions and Checking Results to include:**

- Choosing and using appropriate number operations to solve problems.
- Checking these answers with an equivalent calculation.
- Choosing and using an appropriate method for addition.

### **Money and 'real life' problems to include:**

- Using multiplication and division to solve simple word problems involving money.
- Using mental calculations to solve simple word problems involving money.

### **Fractions, decimals and percentages to include:**

- Rehearsing recognition of fraction notation, including mixed numbers and equivalent fractions.
- Introducing the vocabulary of 'denominator' and 'numerator' and recognising the relationship between fractions and divisions.
- Converting a mixed fraction into an improper fraction and vice versa.

### **Handling data to include:**

- Introducing, drawing and interpreting 'Bar Line' graphs.
- Introducing the 'mode' and 'range' of a set of data.

### **Measures, including problems about measures to include:**

- Using reading and writing standard units of length and weight and converting them to smaller units and vice versa.
- Suggesting suitable units and tools to measure different lengths and weights.
- Measuring and drawing lines to the nearest millimetre.
- Measuring the weight of several objects using scales.

### **Shape and space to include:**

- Rehearsing the terms 'horizontal' and 'vertical'.
- Rehearsing recognition of equilateral and isosceles triangles.
- Introducing right angled and scalene triangles.
- Naming, classifying and recognising the properties of different types of triangles.
- Understanding the concept of reflection.

### **Reasoning about shapes to include:**

- Introducing the names parallel and perpendicular and identifying these lines.
- Rehearsing names and properties of 2-D shapes and irregular and regular polygons.

- Introducing the terms 'two dimensional' and 'three dimensional'.
- Introducing diagonals of polygons.
- Introducing the terms 'reflective symmetry' and 'axis of symmetry'.
- Drawing the lines of symmetry in regular polygons and reflections of shapes in a mirror line.

**Solving problems to include:**

- Rehearsing the use of all four operations to solve simple word problems.

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

- Adding 4 digit numbers using both informal and standard written methods.
- Using paper and pencil methods to support, record or explain additions and subtractions

**Mental calculation strategies (+ and -) to include:**

- Rehearsing addition pairs to 100 and 1000 in multiples of five and fifty.
- Rehearsing addition pairs to 100 with any 2 digit numbers.
- Recognising what must be added to a 3 digit number to make the next multiple of 100.
- Recognising the relationship between pairs to 100 and pairs to 1000.
- Adding several 1 and 2 digit numbers.
- Adding several multiples of 10 and 100.
- Relating adding 2 digit numbers to adding 3 digit multiples of 10.
- Using the relationship between addition and subtraction and recognising that they are inverse operations.
- Using known facts to add and subtract mentally.
- Using patterns in calculations.

**Properties of numbers to include:**

- Counting on or back in steps of constant size.
- Constructing number sequences.
- Rehearsing recognition of multiples of numbers to 10.

LITERACY Term 1 (An overview of Learning Objectives)

This term we will be learning:

- ✓ To read a number of poems by significant children's poets analysing and comparing distinctions in poetic style.
- ✓ To investigate and collect different examples of word play in poetry and to write metaphors from original ideas or from similes.
- ✓ To read, evaluate and write a range of instructional texts including rules, recipes, directions and instructions.
- ✓ To identify features of and write recounts.
- ✓ To read novels by significant children's authors and use them to analyse and compare features of openings, structure and appeal.
- ✓ To map out texts, experiment with story openings and write new scenes or characters into stories maintaining form and style.
- ✓ To develop the use of note taking for a variety of purposes.
- ✓ To understand the dramatic conventions of play scripts and use these to write our own.
- ✓ To develop word level work and spelling strategies including, differences between synonyms, investigate meanings and spellings of words containing specific prefixes e.g. auto and bi, use of dictionaries, idioms and clichés, use of adverbs to qualify verbs, word roots, derivations and spelling patterns, pluralisation and rules for regular spellings.
- ✓ To use commas to mark grammatical boundaries and colons to signal, e.g. a list;