

Primary Five Numeracy Overview

Term 2

Number

- Count forwards and backwards in halves and quarters
- Order a set of consecutive and non-consecutive numbers (increasing and decreasing) within 9999
- Demonstrate value of any number within 9999 in terms of thousands, hundreds, tens and ones (units)
- Understand the use of 0 as a place holder
- Round numbers within 9999 to the nearest 1000, nearest 100 and nearest 10
- Order a set of fractions (increasing and decreasing)
- Develop a standard written method for vertical addition and subtraction, estimating the answer before calculating
- Mentally add 100 to multiples of 100 within 1000
- Mentally add multiples of 100 to multiples of 100 within 1000
- Mentally find what must be added to multiples of 100 to make 1000
- Mentally add a single digit to a 2-digit number, bridging the 10 (34+7)
- Mentally add two 2 digit numbers within 100, without bridging 10
- Mentally subtract 100 from multiples of 100 within 1000
- Mentally subtract multiples of 100 from multiples of 100 within 1000
- Mentally subtract a single digit from a 2 digit number, bridging the 10 (34-7, 43-8)
- Mentally subtract two 2 digit numbers within 100 , without bridging 10
- Solve a range of addition and subtraction problems, using both written and mental calculations, selecting the operation required
- Understand the 8 times multiplication facts as repeated addition, and as arrays
- Develop quick recall, using understanding of the commutative law (order in which an operation is carried out still results in the same answer **e.g. $4 \times 6 = 24$ and $6 \times 4 = 24$**), and knowledge of 4 times facts
- Derive corresponding division facts, using understanding of inverse relationship
- Multiply any whole number by 10, answers within 9999, using concept that digits move one place to the left, as the value of each digit becomes 10 times larger
- Use written multiplication methods to multiply a 2 digit number by 2, 3, 4, 5
- Divide any multiple of 10 within 9999 by 10, using concept that digits move one place to the right, as the value of each digit becomes 10 times smaller
- Using knowledge of 8 times multiplication facts, derive corresponding division facts, using understanding of inverse relationship
- Develop a written method for division calculation within 99
- Solve a range of multiplication and division problems, using both written and mental methods, selecting the operation required
- Use two operation function machines to reinforce quick recall of addition, subtraction, multiplication and division facts
- Find different ways of paying exact amounts within £10.00, e.g. using the least number of coins or notes, or using a specific number of coins or notes

- Calculate in the context of money, using all 4 operations- e.g. working out the cost of a meal for 4 people, then splitting the total cost equally between them

Measures

- Know which unit of length to use in different situations
- Choose appropriate measuring tool, explaining reasons for choice
- Find perimeter of simple shapes, by finding total of lengths of sides
- Choose appropriate unit of weight, and measuring device, in different situations, explaining reasons for choice
- Choose appropriate unit of capacity and measuring container, in different situations, explaining reasons for choice
- Estimate and measure irregular areas in cm^2 by counting whole, half and part squares
- Read analogue and digital times to 1 minute intervals
- Calculate start, finish, durations to 1 minute intervals, including counting through the hour
- Apply knowledge of calculating start, finish, durations to interpreting timetables
- Appreciate need for a more accurate measure of time than 1 minute
- Understand and use seconds to measure time durations more accurately using digital and analogue timers
- Estimate short durations using seconds through practical activities
- Understand the concept and language of temperature

Shape and Space

- Investigate nets of cubes and cuboids by opening up boxes
- Reflect a shape or design using one line of symmetry (horizontal, vertical or diagonal)
- Sort, name, recognise and describe 3D shapes, using number of faces, number and length of edges, number of vertices
- Use numerical coordinates to plot positions (first quadrant only)
- Understand that left and right, clockwise and anticlockwise are relative terms
- Use N, S, E, W as absolute directions

Data Handling

- Represent data by constructing and interpreting pictograms where the symbol represents a group of objects, and half of the symbol represents half of the group size (e.g. if a symbol shows a group of 10, discuss how 25 could be shown)
- Design and use a data collection sheet to investigate an identified issue, and evaluate its effectiveness