Primary Five Numeracy Overview

Term 1
Number

- Count forwards and backwards in 1s, 2s, 5s and 10s within 9999
- Recognise spoken numbers within 9999
- Read and write numbers within 9999
- Know number after, before and between within 9999
- Find missing numbers in a sequence (increasing and decreasing) within 9999
- Round numbers to the nearest 10/100

- Recognise spoken fractions
- Read and write fractions, identifying numerator and denominator

- Know near doubles within 20 and components of 20.
- Mentally add 3 single digit numbers
- Mentally find doubles of multiples of 10 up to double 100, and corresponding halves
- Mentally find doubles of multiples of 100 up to double 500, and corresponding halves
- Mentally find doubles of multiples of 5 up to double 95, and corresponding halves
- Mentally find what must be added to any 2 digit number to make 100

- Use knowledge of place value to develop a standard written method for vertical subtraction HTU (with exchange: decomposition), estimating the answer before calculating
- Mentally subtract any number from 20, including bridging through 10
- Know all remaining subtraction facts within 20
- Solve a range of addition and subtraction problems, using both written and mental calculations, selecting the operation required

- Understand the 3 and 4 times multiplication facts as repeated addition, and as arrays
- Derive corresponding division facts, using understanding of inverse relationship
- Using knowledge of 2,3,4, 5 and 10 times multiplication facts, derive corresponding division facts, using understanding of inverse relationship
- Solve a range of multiplication and division problems, using known facts, selecting the operation required
- From 3 given numbers, derive 2 multiplication and 2 division facts

- Use one operation function machines to reinforce quick recall of addition, subtraction, multiplication and division facts

- Understand relationships between all coins and notes.
- Understand and use decimal recording of amounts of money up to £100
- Calculate change required when buying items, paying with amounts up to £100

- Use efficient methods to find the total of a mixed group of coins and notes - totals up to £10.00 (e.g. by starting with the highest value coins or notes, or by grouping lower value coins into £1 piles)

Measures

- Estimate, measure and record lengths in cm and / or m and cm, converting between cm and m & cm e.g. 320 cm is equal to 3m and 20cm
- Understand concept of perimeter
- Estimate, measure and record weights using kilograms and grams
- Estimate, measure and record capacity using litres and millilitres

- Understand that a square cm is a square where each side is 1cm in length, and that it has an area of 1 square cm
- Estimate and measure areas using the square cm as a standard unit, by counting squares, where the area:
  - Is an exact number of complete cm squares
  - Is made up of whole and half cm squares

- Using analogue and digital clock times to 5 minutes, calculate what time it will be, or was using different intervals, (hours, half hours, quarter hours, multiples of 10 and 5 mins); e.g. The clock says 9.25. What time was it 20 minutes ago? What time will it be in 15 mins?
- Know the number of days in each month and use to calculate durations across a month

Shape and Space

- Identify 3D shapes from 2D drawings
- Sort, name, recognise and describe 2D shapes, using number and length of sides, number of corners, number of right- angles, number of lines of symmetry, stating whether they are regular or irregular

- Understand that coordinates can be used to identify a point rather than a whole square
- Identify angles as being an amount of turn smaller or larger than one right angle
- Use terms "acute" and "obtuse" to categorise angles

Data Handling

- Use ICT software to represent data in a variety of ways and decide which is the most appropriate, giving reasons for choice
- Interpret pie charts using halves, quarters, thirds, fifths to work out proportions and quantities of a total