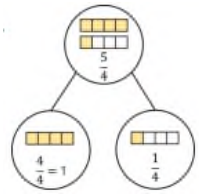


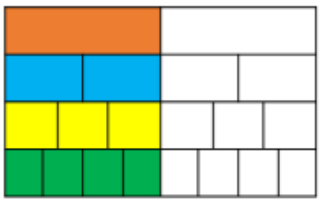
Crosby Primary School

Mathematics Medium Term Plan

Year 4 Spring Term Unit 3 Fractions

Focus: Fractions

Time: 4 weeks



R2P: 3F-1, 3F-2, 3F-3, 3F-4, 4F-1, 4F-2, 4F-3

NC

Recognise and show, using diagrams, families of common equivalent fractions.

Count up and down in hundredths, recognise that hundredths arise when dividing by an object one hundred and dividing tenths by ten.

Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number.

Add and subtract fractions with the same denominator.

Concept Sequence

Understand the Whole. Recap Y3 part-whole relationships. What is a fraction? – Shapes, Quantities and Number lines. Note numerator, denominator, unit and non-unit fraction terms.

Count beyond 1. Fractions greater than 1 – use manipulatives and diagrams to show that a fraction can be split into wholes and parts. How many equal parts make a whole?

Partition a mixed number – explore in different ways. Use part-whole models and diagrams.

Number lines with mixed numbers. Count in fractions – Use number line to make connections between mixed number sand improper fractions.

Compare and order mixed numbers. Use symbols for comparison.

Understand Improper fractions – use bar models and number lines.

Convert mixed numbers to improper fractions – explore using pictorial representations and concrete manipulatives.

Convert improper fractions to mixed numbers.

Equivalent fractions on a number line.

Equivalent fraction families – use strip diagrams. Compare two fractions before finding more equivalent fractions.

Add two or more fractions - same denominator – use practical equipment and pictorial representations to add fractions. Use bar models to show why only the numerators are added. Use number bonds to aid efficiency.

Add fractions and mixed numbers.

Subtract 2 fractions, same denominator – use concrete and images. Explore subtraction as take away and difference (use bar model to show comparison).

Subtract from whole amounts - continue to use practical equipment and pictorial representations. Know how many parts make a whole.

Subtract from mixed numbers – move from not crossing a whole to crossing a whole using bar models and number lines.

Vocabulary

Fraction, Equivalent fraction
Numerator, denominator
Equal part/groups/sharing
Parts of a whole
Half, halves, quarter(s), third(s), fifth(s)……tenth(s)
One of x equal parts

New

Mixed Number, Improper Fraction
hundredths

Resources

Strip diagrams/fraction walls. Part-whole models. Bar Models. Cubes.
Number Lines, Counting stick, Frayer Model
Gordons Maths Games, Mathletics, TTRockstars
BBC Super Movers
https://www.bbc.co.uk/teach/supermovers/ks2-maths-collection/z7frpg8
Working Wall – stem sentences

Planning Links

Power Maths, Maths No Problem Text Books, Aspire Maths
White Rose Scheme of Work:
https://assets.whiterosemaths.com/new-schemes/Year%204%20Spring%20Block%203%20SOL%20Fractions.pdf

Times Tables 4NF-1

11x table - Recall multiples, missing numbers, division, fractions
Count in 12s

$\frac{17}{4}$ $\frac{17}{3}$ $\frac{13}{5}$ $\frac{15}{6}$