

Crosby Primary School



# Mathematics Medium Term Plan

## Year 5 Spring Term Unit 3 Fractions

## Concept Sequence

Multiply Fractions by integer – unit fractions. Link to repeated addition, using bar models.

Multiply non-unit fraction by integer - Bar Modelling.

Multiply Mixed Numbers by Integer – repeated addition. Multiply whole separately.

Calculate fraction of a quantity – using concrete and pictorial representations. Start with unit fractions and move to non-unit fractions (this can be done as two steps if required). Begin to rcognise that we divide by the denominator and multiply by the numerator.

Fraction of an amount – use more pictorial and abstract methods.

Find the whole – start with unit fractions before moving to non-unit fractions. Use bar models for support.

Fractions as operators – commutative rule.

#### **Vocabulary**

Bar Model Fraction, Equivalent fraction, Mixed number Numerator, Denominator Whole, equal part, Equal grouping/sharing Parts of a whole, X of Y equal parts, Half, two halves Quarter, two quarters.... Third, two thirds..... Fifths, sixths, sevenths, eighths, tenths, hundredths proportion <u>New Vocabulary</u>

Proper/improper fraction Equivalent, simplify, reduced to , cancel, thousandths

## Resources

Number lines, Bar Models Gordons Maths Games, Mathletics, TTRockstars BBC Super Movers <u>https://www.bbc.co.uk/teach/</u> <u>supermovers/ks2-</u> <u>collection/zr4ky9q</u>

 $\frac{1}{6} \times 24$ 



#### Times Tables 5NF-1

Consolidate and practice all multiplication and division facts to 12x12 – any order, missing numbers, fractions.

Use multiplication and division facts to derive associated facts.

Develop multiplicative reasoning - links between multiplication, division and fractions.

Focus: Fractions Time: 6 weeks

## <u>R2P: 4F-1, 4F-2, 4F-3, 5F-1, 5F-2, 5F-3</u>

## NC:

Compare and order fractions whose denominators are multiples of the same number.

Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.

Recognise mixed numbers and improper fractions and convert from one form to another and write mathematical statements >1 as a mixed number.

Add and Subtract fractions with the same denominator and denominators that are multiples of the same number.

Multiply proper fractions and mixed numbers by whole numbers, supported by material sand diagrams.

Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.

#### **Planning Links**

Power Maths/Maths No Problem/Aspire Maths

White Rose Scheme of Work:

https://assets.whiterosemaths.com/newschemes/Year%205%20Spring%20Block%202 %20SOL%20Fractions%20B.pdf

## NCETM:

https://www.ncetm.org.uk/teaching-formastery/mastery-materials/primary-masteryprofessional-development/fractions/

