



Mathematics Medium Term Plan

Year 5 Spring Term Unit 6 Percentages

NC

- recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per 100', and write percentages as a fraction with denominator 100, and as a decimal fraction
- solve problems which require knowing percentage and decimal equivalents of $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$ and those fractions with a denominator of a multiple of 10 or 25

Focus: Percentages

Time: 1 week

Times Tables

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.

Concept Sequence

Understand percentages – introduce per cent as number of parts of one hundred. Use different representations.

Percentages as fractions – percentages, fractions and decimals are different ways of representing proportion.

Percentages as decimals – percentages, fractions and decimals are different ways of representing proportion.

Equivalent Fractions, Decimals and Percentages – use bar models and hundred squares (use $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{2}{5}$, $\frac{4}{5}$).

Solve problems.

Planning Links

Maths No Problem/Aspire Maths
White Rose Scheme of Work:

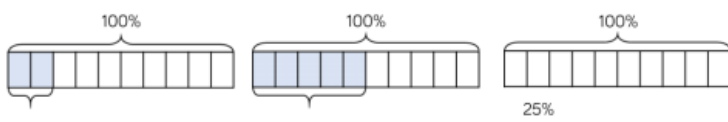
<https://assets.whiterosemaths.com/new-schemes/Year%205%20Spring%20Block%203%20SOL%20Decimals%20and%20percentages.pdf>

NCETM:

<https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/primary-mastery-professional->

| Pictorial | Parts per hundred | Percentage |
|-----------|---------------------------------|------------|
| | There are 51 parts per hundred. | |
| | | 75% |

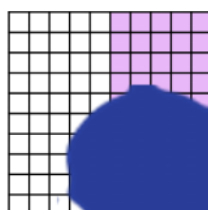
Complete the bar models.



Resources

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

Oh no! Dexter has spilt ink on his hundred square.



Vocabulary

Bar Model
Fraction/proper/improper
Equivalent fraction
Proportion
Tenths, hundredths, thousandths
Decimal point, decimal fraction, decimal equivalent, decimal place
New
Percentage, per cent, %

Write <, > or = to complete the statements.

90% ○ 0.9 8.5 ○ 85%
1% ○ 0.1 50% ○ 0.5