



**Focus:** Decimals

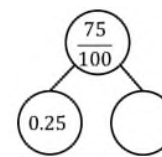
**Time:** 2 weeks

**Mathematics Medium Term Plan**

**Year 5 Spring Term Unit 5 Decimals**

**NC**

- read and write decimal numbers as fractions [for example,  $0.71 = \frac{71}{100}$ ]
- recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents
- round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
- read, write, order and compare numbers with up to 3 decimal places
- solve problems involving number up to 3 decimal places



**Concept Sequence**

Decimals up to 2dp – read and write knowing value of each digit using counters and PV grid.

Equivalent fractions and decimals - tenths.

Equivalent fractions and decimals – hundredths. Show fractions greater than one as Mixed Numbers and Improper fractions.

Equivalent fractions and decimals – focus on halves, quarters, fifths and tenths.

Thousandths as fractions – new concept. Partition - explore links with tenths, hundredths and thousandths.

Thousandths as decimals – explore links with tenths, hundredths and thousandths. Include flexible partitioning.

Thousandths on a place value chart.

Order and Compare decimals to 3dp – use counters and number lines. Compare same number of decimal places.

Order and Compare any decimal to 3dp – use counters and number lines.

Rounding decimals to the nearest whole – use number lines.

Rounding decimals - 2dp to nearest 1dp – use number lines

**Times Tables**

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

Use multiplication and division facts to derive associated facts.

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

**Planning Links**

Maths No Problem/Aspire Maths/Power Maths

White Rose Schemes 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-development/fractions/>

**Resources**

100 square, base ten, place value grid,

gattengo chart

Gordons Maths Games, Mathletics,

TTRockstars, BBC Super Movers:

<https://www.bbc.co.uk/teach/supermovers/ks2-collection/zr4ky9q>

**Existing Vocabulary**

Parts of a whole, Tenths, Hundredths

Decimal, decimal fraction, decimal point

Decimal place, decimal equivalent,

proportion, Ascending, descending

**New Vocabulary**

Thousandths, Equivalent



Dora and Ron have partitioned 0.132 in different ways.



Dora

$$0.132 = 0.1 + 0.03 + 0.002$$



Ron

$$0.132 = 0.1 + 0.02 + 0.012$$

