Master Reading and Writing Numbers with up to 3 Decimal Places

Rationale

In this step, pupils will build on their understanding of decimal numbers by reading and writing numbers with up to 3 decimal places using decimal notation. They will continue to read and write numbers from left to right. When reading numbers, they will use the vocabulary 'point' to indicate the decimal point and say all of the numerals as single digits. For example, 8.249 in words is eight point two four nine. They will recognise zero as a place holder when the number is written in numerals and will understand they sometimes say it if it is in a decimal number. For example, 5.09 in words is five point zero nine. *Pupils will continue to place a decimal point between the ones and tenths.*

Key Stem Sentences

- ___ . ___ ___ ___ in words is _____
- _____ in numerals is ___ . ___ ___ ___

Key Vocabulary

- point
- tenths / hundredths / thousandths
- zero

Key Representations

Number Grid

6	point	2	4

Six point two four in numerals is 6.24

8	point	7	0	3

Seven point seven zero three in numerals is 8.703

0	point	0	2	5

Zero point zero two five in numerals is 0.025

9	point	1

9.1 in words is nine point one.

7	point	0	6	4
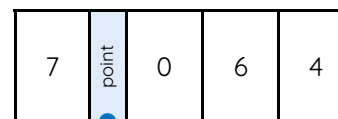
7.064 in words is seven point zero six four.

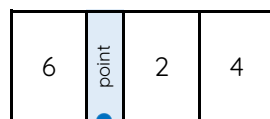| 3	point	0	0	8
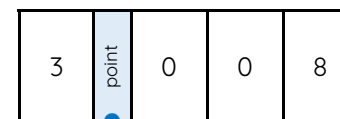
3.008 in words is three point zero zero eight.

Common Errors or Misconceptions

- Pupils may not use 'point' to say the decimal point.
- Pupils may read 8.37 as 8 point thirty-seven.
- Pupils may misunderstand when to read and write zero. For example, 6.050, instead of 6.05
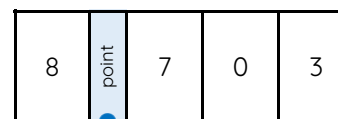
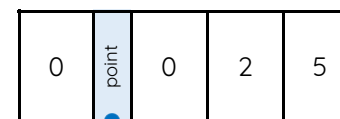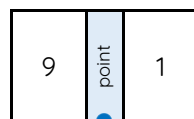## Pupils will FLOURISH if they can...

- accurately read and write numbers with up to 3 decimal places in words.
- accurately read and write numbers with up to 3 decimal places in numerals.
- begin to explain their understanding using their own words and representations.