# Number and Place Value: Place Value Up to 10 Million Including Decimals 

## Aim:

Read, write, order and compare numbers up to 10000000 and determine the value of each digit.

To partition and compose numbers up to 10000000 including decimal tenths, hundredths and thousandths.


#### Abstract

Success Criteria: I can read and write decimal numbers up to 10000000 .

I can identify the place value of digits in decimal numbers up to 10000000 . I can combine units to compose decimal numbers up to 10000000. I can partition decimal numbers up to 10000000.


## Key/New Words:

Gattegno chart, partitioning, combining, composing, unit parts, decimal number, ten-thousands, hundred-thousands, millions, tenths, hundredths, thousandths.

Resources:
Lesson Pack

## Preparation:

Differentiated Place Value Number Guess

- one per child

Diving into Mastery Activity Sheets

- as required

Prior Learning: It will be helpful if children have covered place value of numbers up to 10000000 .

## Learning Sequence

Partitioning: Using the Lesson Presentation, children explore representations of numbers using a Gattengo
chart. They use this representations to identify the place value of decimal numbers up to 10 million and
demonstrate their understanding by completing sentence stems about the numbers. They then answer sentence
stems about their own decimal number. Can children identify the place value of digits in decimal numbers up
to 10 000 000?
Diving into Mastery: Schools using a mastery approach may prefer to use the following as an alternative activity.
These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section
and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are
applying this to show their depth of understanding.

