## Place Value: Estimating on a Number Line

## Aim:

Round any whole number to a required degree of accuracy.
DFE Ready-to-Progress Criteria: Reason about the location of any number up to 10 million, including decimal fractions, in the linear number system, and round numbers, as appropriate, including in contexts. (6NPV-3)
To estimate numbers with up to 7 digits on number lines.


#### Abstract

Success Criteria: I can estimate where to place numbers with up to 7 digits on number lines. I can estimate the values of numbers with up to 7 digits indicated on number lines. I can use my understanding of dividing powers of 10 into equal parts to help with estimating.

I know to use leading digits to estimate the position of a large number on a number line.


## Key/New Words:

Estimate, equal parts, scale, number line, power of 10 .

Resources:
Lesson Pack

## Preparation:

Estimating on a Number Line Bingo Game - 1 per group

Diving into Mastery Activity Sheets - as required

Prior Learning: Year 5 conceptual prerequisite: Reason about the location of numbers between 0.01 and 9,999 in the linear number system.

## Learning Sequence

Remember It: Use the corresponding slides of the Lesson Presentation to rehearse estimating the values of
arrows shown on marked number lines with a variety of scales. Uses numbers between 0.01 and 9999 .

## Exploreit

Throwit: Use chalk to draw a number line on the playground. The children throw four beanbags onto the line and estimate the value of where they land.
Rollit: Children take turns to roll a dice five times to create a five-digit multiple of 100. They estimate where to place this number on a number line.
Learnit: Children will find this visually exciting__ a useful tool for understanding the place value of seven-digit numbers.

