# Unit 2d-Understand Fractions As Numbers 

Content Area: Mathematics<br>Course(s): Math 3 Time Period: Length: Status: Marking Period 2<br>MP2 Topic 12 12-1 to 12-8<br>Published

## Essential Questions

- What are different interpretations of a fraction?


## Big Ideas

- Build on the Concept of Unit Fractions- Students understand that fractions are parts of a whole.
- Fraction Representations- Fraction concepts are developed and reinforced using diagrams of positioned regions, fraction bars, and number lines.


## Technology Connection

8.1.5.IC.1: Identify computing technologies that have impacted how individuals live and work and describe the factors that influenced the changes.

## Enduring Understandings

Number and Operations-Fractions
3.NF.A [M] Develop understanding of fractions as numbers
3.NF.A. 1 Understand a fraction $1 / b$ as the quantity formed by 1 part when a whole is partitioned into $b$ equal parts; understand a fraction $\mathrm{a} / \mathrm{b}$ as the quantity formed by a parts of size $1 / \mathrm{b}$.
3.NF.A.2a Understand a fraction as a number on the number line; represent fractions on a number line diagram
a. Represent a fraction $1 / b$ on a number line diagram by defining the interval from 0 to 1 as the whole and partitioning it into $b$ equal parts. Recognize that each part has size $1 / b$ and that the endpoint of the part based at 0 locates the number $1 / \mathrm{b}$ on the number line.
3.NF.A.2b Represent a fraction $\mathrm{a} / \mathrm{b}$ on a number line diagram by marking off a lengths $1 / \mathrm{b}$ from 0 . Recognize that the resulting interval has size $a / b$ and that its endpoint locates the number $a / b$ on the number line
3.NF.A.3.c Express whole numbers as fractions, and recognize fractions that are equivalent to whole numbers. Examples:Express 3 in the form $3=3 / 1$; recognize that $6 / 1=6$; locate $4 / 4$ and 1 at the same point of
a number line diagram.

## Measurement and Data

3.MD.B. 4 Generate measurement data by measuring lengths using rulers marked with halves and fourths of an inch. Show the data by making a line plot, where the horizontal scale is marked off in appropriate units whole numbers, halves, or quarters.

## Geometry

3.G.A.2- Partition shapes into parts with equal areas. Express the area of each part as a unit fraction of the whole

## Mathematical Practices Focus

1. Make sense of problems and persevere in solving them.
