# Unit 1: Adding and Subtracting Integers and Rational Numbers

Content Area: **Math**
Course(s): **Math**
Time Period: **September**
Length: **3-4 weeks**
Status: **Published**

## Enduring Understandings

SWBAT:

- understand absolute value
- order and compare rational numbers
- find sums of integers
- find sums of rational numbers
- find differences of integers
- find differences of rational numbers
- find distances of rational numbers on a number line.

## Essential Questions

How can we:

- understand absolute value, and order and compare rational number
    - Can we graph rational numbers on a number line?
    - Can we find absolute value of a rational number?
    - Can we use a number line to compare rational numbers?
- find sums of integers
    - can we explain how to model addition of integers on a number line?
    - can we find sums of integers by reasoning using absolute value?
    - can students explain why the sum of number and its opposite is zero?
- find sums of rational numbers
    - can we explain how to model addition of rational number on a number line?
    - can we find sums of rational numbers by reasoning about absolute value?
    - can we use properties of addition to efficiently add rational numbers?
- find differences of integers

- can we explain how subtracting integers is related to adding integers?
- can we use models to subtract integers on a number line?
- can we find differences of integers by reasoning about absolute values?

- find differences of rational numbers

- can we explain how to model subtraction of rational numbers on a number line?
- can we find differences of rational numbers by reasoning about absolute values?
- can we find distances between integers and rational numbers on a number line?

## Benchmark Assessments

**Schoolwide Benchmark assessments:**

- Linkit Benchmarks (Form A in September, Form B in January, Form C in June): Linked to NJSLA standards

**Additional Benchmarks used in this unit:**

- IXL Diagnostic + continued practice during IXL periods

## Formative Assessments

**Formative Assessments used in this unit:**

- Kahoot! Games

- Quizizz Games

- Homework

- Q & A

- Scavenger Hunts

- Coloring Activities

- Task Cards

- Partner Activities

## Summative Assessments

**Summative assessments for this unit:**

- Chapter Test
- Quizzes

## Instructional Materials

1. Big Ideas Math: Math & You 6th Grade Textbook
2. Quizizz
3. Kahoot!
4. Scavenger Hunts
5. Task Cards
6. Coloring Activities
7. GimKit

## Standards

| | |
|---|---|
| MA.7.NS.A | Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. |
| MA.7.NS.A.1 | Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. |
| MA.7.NS.A.1c | Understand subtraction of rational numbers as adding the additive inverse, □ – □ = □ + (– □). Show that the distance between two rational numbers on the number line is the absolute value of their difference, and apply this principle in real-world contexts. |
| MA.7.NS.A.1d | Apply properties of operations as strategies to add and subtract rational numbers. |