

# Unit 4: Simplifying Expressions and Solving Equations

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| Content Area: | <b>Math</b>      |
| Course(s):    | <b>Math</b>      |
| Time Period:  | <b>September</b> |
| Length:       | <b>3-4 weeks</b> |
| Status:       | <b>Published</b> |

## Enduring Understandings

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SWBAT:

- Identify key words and phrases to write equations and inequalities.
- Write word sentences as equations and inequalities.
- Solve equations and inequalities using properties.
- Use equations and inequalities to model and solve real-life problems.

## Essential Questions

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How can we:

- Write and solve equations using addition or subtraction
  - Apply the Addition and Subtraction Properties of Equality to produce equivalent equations.
  - Solve equations using addition or subtraction.
  - Apply equations involving addition or subtraction to solve real-life problems
- Write and solve equations using multiplication or division
  - Apply the Multiplication and Division Properties of Equality to produce equivalent equations.
  - Solve equations using multiplication or division.
  - Apply equations involving multiplication or division to solve real-life problems
- Write and solve two-step equations
  - Apply properties of equality to produce equivalent equations.
  - Solve two-step equations using the basic operations.
  - Apply two-step equations to solve real-life problems
- Write inequalities and represent solutions of inequalities on number lines
  - Write word sentences as inequalities.
  - Determine whether a value is a solution of an inequality.
  - Graph the solutions of inequalities
- Write and solve inequalities using addition or subtraction
  - Apply the Addition and Subtraction Properties of Inequality to produce equivalent inequalities.

- Solve inequalities using addition or subtraction.
- Apply inequalities involving addition or subtraction to solve real-life problems
- Write and solve inequalities using multiplication or division
  - Apply the Multiplication and Division Properties of Inequality to produce equivalent inequalities.
  - Solve inequalities using multiplication or division.
  - Apply inequalities involving multiplication or division to solve real-life problems
- Write and solve two-step inequalities
  - Apply properties of inequality to generate equivalent inequalities.
  - Solve two-step inequalities using the basic operations.
  - Apply two-step inequalities to solve real-life problems

## **Benchmark Assessments**

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### **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**

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### **Formative Assessments used in this unit:**

- Kahoot! Games
- Quizizz Games
- Homework
- Q & A
- Scavenger Hunts

- Coloring Activities
- Task Cards
- Partner Activities

## **Summative Assessments**

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**Summative assessments for this unit:**

- Chapter Test
- Quizzes

## **Instructional Materials**

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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**

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