Unit 4: Simplifying Expressions and Solving Equations

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

Enduring Understandings

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

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

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