

## 6<sup>th</sup> Grade Math

### **Mini-Lesson Topics:**

Order of operations without exponents

Simplifying numerical expressions with order of operations & exponents

Generating equivalent numerical expressions.

Prime and composite numbers & prime factorization

Generate equivalent numerical expressions.

Decomposing numbers into prime and composite factors

Utilized numerical expressions and algebraic expressions.

Generating equivalent numerical and algebraic expressions

Properties of operations: Inverse, identity, commutative, associative, and distributive properties.

Use concrete models, pictorial models, and algebraic representations to show equivalent expressions

Differentiate between equations and expressions

Characteristics of expressions and equations

Use the term variable when referencing a letter that represents an unknown quantity.

One-variable, one-step equations.

Constants or coefficients of one-variable, one-step equations

Constraints or conditions within a problem situation

Write a one-variable, one-step equation

Write a corresponding real-world problem when given a one-variable, one-step equation

Model and solve one-variable, one-step equations that represent problems, with concrete models, pictorial models, and algebraic representations

Model and solve one-variable, one-step equations that represent problems involving geometric concepts.

Solve equations with positive rational number constants or coefficients using an algebraic model.

Represent solutions on a number line

Determine if a given value(s) make(s) the one-variable, one-step equation true.