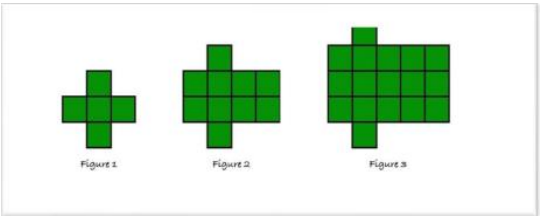
6th Grade Unit 4: Building a Conceptual Understanding of Expressions



Overview:

The fourth unit of sixth-grade math students will transition from arithmetic to algebraic representations. They will learn to translate verbal phrases and numeric situations into algebraic expressions, understand like terms, and work with exponential notations.

Learning Targets:

In Unit 4, students will:

- Write and evaluate numerical expressions involving rational bases and whole-number exponents.
- Determine the greatest common factors and least common multiples.
- Use a variety of strategies to make sense of applicable problems.
- Write and read expressions that represent operations with numbers and variables in realistic situations.
- Evaluate expressions when given values for the variables, including expressions that arise in everyday situations.
- Apply the properties of operations to identify and generate equivalent expressions.

Key Vocabulary: (linked to GA DOE Interactive Glossary)

Algebraic Expression	Associative Property of Addition	Associative Property of Multiplication	Coefficient
Commutative Property of Addition	Commutative Property of Multiplication	Constant	Distributive Property
Exponent	Expression	Like Terms	Order of Operations
Term	Variable		

Supporting Resources:

http://ctlslearn.cobbk12.org/

https://gavirtual.instructure.com/courses/34329

Order of Operations

Least Common Multiple

Properties of Addition

Distributive Property

Greatest Common Factor