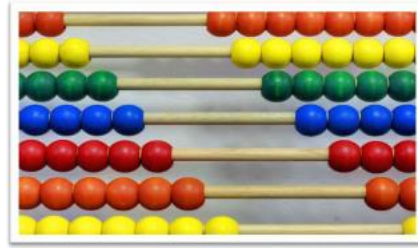




3rd Grade Unit 2: Exploring Multiplication



Overview:

In this unit, students will explore multiplication through hands-on investigations and authentic problems. Students will explore patterns and properties of operations while discovering relationships between multiplication facts. Students will also represent and solve multiplication problems through the context of picture and bar graphs. Students will create statistical investigative questions, collect, analyze, and interpret numerical and categorical data as an entry point for learning about equal-size groups and multiplication.

Learning Targets:

In Unit 2, students will:

- build a foundation for multiplication fluency.
- use foundational facts (2's, 5's, and 10's) to explore derived multiplication facts.
- explore multiplication patterns when skip-counting.
- use multiple strategies and representations to model multiplication expressions.
- collect data and use scaled graphs/ pictographs to explore multiplication concepts.
- explore the area by tiling.
- investigate multiplication properties through concrete models and drawings (commutative, associative, and distributive).

Key Vocabulary: (linked to GA DOE Interactive Glossary)

Array	Associative Property	Bar Model	Column	Commutative Property
Distributive Property	Equal Groups	Equation	Expression	Factor
Identity Property	Multiple	Product	Repeated Addition	Row
Scale	Tape Diagram	Zero Property	Pictograph	Bar Graph

Supporting Resources:

<http://ctslslearn.cobbk12.org/>

[Learning to Multiply](#)

<https://gavirtual.instructure.com/courses/34724#modules>

[Learning to Think Mathematically About Multiplication \(mathlearningcenter.org\)](#)