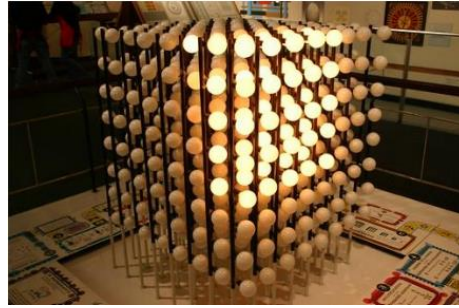# 4th Grade Unit 3:
Reasoning about Multiplication and Division

Overview:

Previously students were multiplying and dividing numbers within 100. In this unit students will be building on this understanding by multiplying multi-digit numbers by a one-digit number or two two-digit numbers as well as dividing four-digit numbers with one-digit divisors. This unit also incorporates problem solving with money, intervals of time, and metric measurements for liquid volume, distance, and weight.

Learning Targets:

In Unit 3, students will:

- solve multi-step problems.
- solve problems involving multiplicative comparison.
- use estimation to solve multiplication and division problems.
- solve problems involving elapsed time.
- solve problems involving metric measurement including volume, distance, and weight.

Key Vocabulary: (linked to GA DOE Interactive Glossary)

Additive Comparison	Analog Clock	Dividend	Elapsed Time	Factor
Grams	Kilograms	Liters	Milliliters	Multiplicative Comparison
Product	Remainder	Quotient	Multiply	Divide

Supporting Resources:

http://ctlslearn.cobbk12.org/

https://gavirtual.instructure.com/courses/34725#modules

Metric System Basics

Partial Products for Multiplication and the Distributive Property

Area Model and Algorithm Multiplication

Multiplicative Comparison

Area Model for Multiplication

Partial Quotient Division