## **Fourth Grade Math Learning Progression**

Vocabulary: array, place value, factoring, partial product, compare, contrast, algorithm, Venn diagram, expanded form

**Demonstrate** and explain how to multiply by 10, 100, and 1.000.

Demonstrate and explain the multiplication process using an array

Represent multiplication of a three-digit number by a one-digit number in expanded form

4.1.C Represent multiplication of a two-digit number by a two-digit number with place value models

**Demonstrate Partial Product** Multiplication, Compare and **Contrast Array** vs. Partial Product

Fluently & accurately multiply up to a threedigit number by one- and two-digit numbers using the standard multiplication algorithm. CCSSM 5.NBT.5

4.1.F

format

"I can show and explain how to multiply a two or three digit number by a one-digit number using expanded notation."

Formative Assessments:

Base 10 Blocks Place Value Chart Money Metric Measures

"I can show and explain how to multiply a two or three digit number by a one-digit number using place value models."

**Formative Assessments:** 

Base 10 Blocks Graph paper Picture of Arrays Money

"I can show and explain the similarities and differences between the Partial Product and the Array approaches to seeing multiplication."

Formative Assessments:

Base 10 Blocks Place Value Chart Money Metric Measures

"I can demonstrate and explain how to multiply any number by ten, one hundred. or one thousand."

## **Formative Assessments:**

Base 10 Blocks Place Value Chart Money Metric Measures

Color Tiles **Two Color Counters Patterns Charts Skip Counting Materials** Graph paper

"I can demonstrate and

multiplication process

using an array format."

**Formative Assessments:** 

explain the



Math & Science Collaborative Inquiry Project