MP1c-Integers and Coordinate Plane

Content Area: **Mathematics**
Course(s): **Math 4 Resource Room**
Time Period: **Marking Period 1**
Length: **MP1**
Status: **Published**

Essential Questions

- How can you multiply by multiples of 10, 100, and 1,000?
- How can you estimate when you multiply?

Big Ideas

- **Multiplication by 1-Digit Numbers:** The algorithm for multiplying by 1-digit numbers up to 100 is developed. Conceptual understanding for the standard algorithm is developed further through the use of models and manipulatives.
- **Solve One-Step Problems:** Students will use multiplication to solve problems involving whole numbers.

Career Integration Integration

9.2.4a.1 Identify reasons why people work, different types of work, and how work can help a person achieve personal and professional goals.

9.2.4a.2 Identify various life roles and civic and work-related activities in the school, home, and community.

9.2.4a.3 Investigate both traditional and nontraditional careers and relate information to personal likes and dislikes.

9.2.4a.4 Explain why knowledge and skills acquired in the elementary grades lay the foundation for future academic and career success.

Connection:
Use real world mathematical problems involving area. Include job roles such as architects, construction workers, etc. to solve area word/story problems.

Enduring Understandings

Operations and Algebraic Thinking

4.OA.A.3 Solve multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding.

Number and Operations in Base Ten

4.NBT.B.5 [M] Multiply a whole number of up to four digits by a one-digit whole number, (and multiply two two-digit numbers), using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

Mathematical Practices

1. Make sense of problems and persevere in solving them.