Unit 1c-Fluently Multiply Multi-Digit Whole Numbers

Content Area: **Math**
Course(s): **Math 5**
Time Period: **Marking Period 1**
Length: **MP1 Topic 3 3-1 to 3-9**
Status: **Published**

Essential Questions

- What are the standard procedures for estimating and finding products of multi-digit numbers?

Big Ideas

- **Estimation:** Students will learn how to use rounding and compatible numbers to estimate products. They will use this strategy to check their exact answers or reasonableness.
- **Multiplication Fluency:** Students will develop an understanding and fluency using the standard multiplication algorithm for whole numbers. Students will start with multiplying 1-digit and 2-digit numbers and continuing to multiplying 3-digit by 2-digit numbers.
- **Use Multiplication Fluency:** Students will use the fluency they develop to solve problems and critique others' reasoning.

CSDT Technology Integration

8.2.5.ED.3: Follow step by step directions to assemble a product or solve a problem, using appropriate tools to accomplish the task.

Activity:

1) Students will apply knowledge of skills taught in class during the mini lesson to an online assessment through the Pearson EnVisions 2020 website. Each student has a login and password, and the teacher will assign a "Quick Check" that utilizes state testing like tools.

2) Students will work independently in the IXL program to answer questions about multiplication. The specific skills in IXL related to this standard are C14-C19. The program will track student progress and mastery of these skills.

Enduring Understandings

Number and Operations in Base Ten

5.NBT.A.1 Recognize that in a multi-digit number, a digit in one place represents 10 times as much as it

represents in the place to its right and 1/10 of what it represents in the place to its left.

5.NBT.A.2 Explain patterns in the number of zeros of the product when multiplying a number by powers of 10, and explain patterns in the placement of the decimal point when a decimal is multiplied or divided by a power of 10. Use whole-number exponents to denote powers of 10.

5.NBT.B.5 [M] With accuracy and efficiency multiply multi-digit whole numbers using the standard algorithm.

Mathematical Practices Focus

3. Construct viable arguments and critique the reasoning of others.