

Mathematics CFA

Pre-Instruction

1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do):

5.NBT.5- Fluently multiply multi-digit whole numbers using the standard algorithm.

2. Mathematical Practices

#1-Make sense and persevere in solving them

#2-Reason abstractly and quantitatively

#6-Attent to precision

#7-Look for and make use of structure

#8- Look for and express regularity in repeated reasoning.

3. I Can Statements – Put learning targets in student friendly terms.

I can multiply multi-digit whole numbers using a standard algorithm.

Depth of Knowledge of the standard (Highlight the Level of the Learning Target):

Level 1 Recall; Level 2 – Skill/Concept; Level 3 – Strategic Thinking; **Level 4 – Extended Thinking**

4. List the skills students need to know in order to begin this standard:

Concept of multi-digit whole numbers

Concept of multiplication (standard algorithm)

5. What type of assessment am I going to write? [selected response (m/c, t/f, y/n, matching, fill in ___) **or** constructed response (**short:** word, phrase, sentence, single problem; **extended:** multi-step operations in math, problem solving)] List the assessment questions.

Extended Response:

Two students were each assigned an expression. The work each student did to find a value for her expression is shown.

Student A:

$$\begin{array}{r} 1 \\ 623 \\ \times 14 \\ \hline 2,492 \\ + 623 \\ \hline 3,115 \end{array}$$

Student B:

$$\begin{array}{r} 12 \\ 327 \\ \times 43 \\ \hline 1981 \\ + 13,080 \\ \hline 14,061 \end{array}$$

One student's work shows the correct value for her expression, while the other student's work shows an incorrect value for her expression.

1. Which student's work shows an incorrect value for her expression? Explain the reason for your answer.
2. For the student's work that shows an incorrect value for her expression, explain any mistakes that were made and find the correct value. Be sure to show your work or explain how you got your answer.

BE SURE TO LABEL YOUR RESPONSES 1 AND 2.

6. Scoring Guide

Exceeds Expectations: Student receives a 4 but includes more than words for their explanation.

Proficient: Student receives 4 out of 4 on the scoring rubric.

Approaching Proficiency: Student receives 3 out of 4 on the scoring rubric.

Not Proficient: Students receives less than 3 out of 4 on the scoring rubric.

Name: _____ Date: _____

Power Standard: 5.NBT.5

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Power Standard: 5.NBT.5- Fluently multiply multi-digit whole numbers using the standard algorithm.

Tracking Sheet

Class: _____ Grade: 5

Student	1 st Attempt				2 nd Attempt				3 rd Attempt			
	Not Proficient	Approaching Proficiency	Proficient	Exceeds Expectations	Not Proficient	Approaching Proficiency	Proficient	Exceeds Expectations	Not Proficient	Approaching Proficiency	Proficient	Exceeds Expectations

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