

Mathematics CFA Template

Pre-Instruction

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

4.NBT.1 **Recognize** that in a multi-digit whole number, a digit in one place represents ten times what it represents in the place to its right. For example that $700 \div 70 = 10$ by **applying** concepts of place value and division.

2. Mathematical Practices

1. Make sense of the problem and persevere.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend 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.

1. I can recognize a multi-digit whole number.
2. I can recognize place value.
3. I can understand the base ten numbers.
4. I can apply concepts of place value and division.

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:

1. Recognize base ten models.
2. Understand division.
3. Recognize patterns by power of tens.

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.

1. Using models, convert numbers by place value. (ex. 8 hundred = how many ones? 20 hundreds is how many thousands?)
2. In a given number, what is the value of the underlined digit and explain. (ex. Using the number 4,762,981, what is the value of 7 in the ones place, tens, hundreds, thousands, ten thousands?)
3. How is the 2 in the number 582 similar and different from the 2 in the number 528? Explain and show your work.

6. Scoring Guide

Exceeds Expectations: 3 out of 3 correct with additional ways of solving.

Proficient: 3 out of 3 right

Approaching Proficiency: 2 out of 3

Not Proficient: anything under 2

