Mathematics CFA Template

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| Pre-Instruction |
| 1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do): |
| 7.NS.2 – Apply and extend previous understanding of multiplication and division of fractions to multiply and divide rational numbers.  c) Apply properties of operations as strategies to multiply and divide rational numbers |
| 2. Mathematical Practices |
| SMP.1 – Make sense of problems and persevere in solving them.  SMP.2 – Reason abstractly and quantitatively  SMP.5 – Use appropriate tools strategically  SMP.6 – Attend to precision  SMP.7 – Look for and make use of structure |
| 3. I Can Statements – Put learning targets in student friendly terms. |
| **I CAN,** multiply and divide rational numbers  **I CAN**, understand the signed rules of multiplication and division  **I CAN**, understand different forms of writing opposite quotients –(p/q) = (-p)/q = p/(-q)  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. Multiply and divide positive integers and rational numbers 2. Simplify rational number 3. Vocabulary (divisor, numerator, denominator, rules of signed numbers) |
| 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. –(3/8) × 8 2. -3(1/3) ÷ -(2/3) 3. 3.4 x 2.25 4. 5.25 ÷ - 0.5 |
| 6. Scoring Guide |
| **Exceeds Expectations:** Proficient, AND beyond (picture, model, etc)    **Proficient: All four are correct numerically and correct sign**  **Approaching Proficiency:** 2 to 3 out of 4, with some signs correct but not all  **Not Proficient:** 1 out of 4 |