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.1d – Apply and extend previous understandings of addition and subtraction to add and subtract rational numbers; represent addition and subtraction on a horizontal or vertical number line diagram. d) Apply properties and operations as strategies to add and subtract rational numbers. |
| 2. Mathematical Practices |
| SMP.1 – Make sense of problems and persevere in solving them.SMP.2 – Reason abstractly and quantitativelySMP.4 – Model with mathematicsSMP.5 – Use appropriate tools strategicallySMP.6 – Attend to precision  |
| 3. I Can Statements – Put learning targets in student friendly terms. |
| **I CAN,** add and subtract rational numbers**I CAN,** represent addition and subtraction on a horizontal and vertical number line**I CAN,** apply properties and operation as strategies to add and subtract rational numbersDepth 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. Add, subtract, multiply, & divide positive rational numbers
2. Add, subtract, multiply, & divide positive/negative integers
3. Construct number lines, both horizontal & vertical
4. Identify number placement on number lines
5. Vocabulary (absolute value, comparing, opposites, rational)
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| 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. Given the expression 1/2 + (-3/4) , answer the following:
2. Find the solution to the expression. Show your work.
3. Model the expression on the given number line.
4. Explain in words how you drew your model on the number line above.

 1. Given the expression -0.2 – (-1.6), answer the following:
2. Find the solution to the expression. Show your work.
3. Model the expression on the given number line
4. Explain in words how you drew your model on the number line above.
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| 6. Scoring Guide  |
| **Exceeds Expectations:** Proficient AND Explain in words correctly. **Proficient:** Find the proper solution, using the proper method.  Model the solution correctly on the number line. Correct starting place and which direction to move.**Approaching Proficiency:** Finding correct solution to the expression.**Not Proficient:** None of the above.  |