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): |
| 8.G.7 Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical problems in two and three dimensions. |
| 2. Mathematical Practices |
| SMP 1. Make sense of problems and persevere in solving them.  SMP 2. Reason abstractly and quantitatively.  SMP 4. Model with mathematics.  SMP 6. Attend to precision. |
| 3. I Can Statements – Put learning targets in student friendly terms. |
| I can apply the Pythagorean theorem to determine the side lengths in a right triangle.  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: |
| What is a right triangle.  Solve two step equations. |
| 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. |
| Constructed Response  Line AB = cm  Line AC = 22 cm  Using the Pythagorean Theorem determine the length of line BC.  Line AC = 22 cm  Line HC = 20 cm  Using the Pythagorean Theorem determine the length of line AH. |
| 6. Scoring Guide |
| **Exceeds Expectations:**  **Proficient:**  Correctly answers all questions.  **Approaching Proficiency:** Correctly answers one of the two problems.  **Not Proficient:** Fails to answer questions correctly. |