Mathematics CFA Template

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| Pre-Instruction: Part 1 |
| 1. List the Standard. Underline the nouns (what students will know) and highlight the verbs (what student will do): |
| 7.RP.3 – Use proportional relationships to solve multi-step ratio and percent problems. (e.g. *simple interest, tax, gratuities and commissions, fee)*. |
| 2. Mathematical Practices |
| SMP.1  SMP.4  SMP.5  SMP.7 |
| 3. I Can Statements – Put learning targets in student friendly terms. |
| **I CAN,** solve multi-step ratio and percent problems that involve simple interest, tax, markup & markdown, gratuities &commissions, fees.  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. Functions / keys of calculator 2. Cross multiplication 3. Part of proportions 4. What is a percent of number |
| 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. If you borrow $5,000 from the bank at a rate of 7%. If you pay back the loan in 4 years, how much simple interest was paid to the bank. 2. You buy a pair of basketball shoes for $79.99. Sales tax is 8.5%. 3. How much tax will you pay? (Round to the nearest cent) 4. What is the total amount you paid for the shoes? 5. It is common practice to leave a waiter/waitress a 15% gratuity based on the amount of the bill. If your meal at Chili’s was $21.53. What was the amount of gratuity left for your waiter/waitress? 6. A real estate broker receives a standard 7% commission for every house they sell. If the agent sold a house for $125,000, how much commission will they earn? 7. To cash a check at a gas station, there is a check cashing fee of 3.5%. If a check in the amount of $654 is cashed, how much of a fee will be assessed? |
| 6. Scoring Guide |
| **Exceeds Expectations:** 5 of 5 with proper procedure shown  **Proficient:**  4 of 5 correct with proper procedure shown  **Approaching Proficiency:** 3 of 5 correct with proper procedure shown  **Not Proficient:** 1 or 2 of 5 correct. |