

Mathematics CFA Template

Pre-Instruction

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

6.RP.3-Use ratio and rate reasoning to solve real-world and mathematical problems, e.g., by reasoning about tables of equivalent ratios, tape diagrams, double number line diagrams, or equations.

2. Mathematical Practices

1. Make sense of problems and persevere in solving them.
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 use ratio to solve real world problems.
2. I can use rate reasoning to solve real world problems.

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. Vocabulary-ratio, rate reasoning

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.

Exit Tickets-Vocabulary and skills

Constructive Response-short; few questions

Word problems using ratios and rate reasoning

1. Using the information in the table, find the number of yards in 24 feet.

Feet	3	6	9	15	24
Yards	1	2	3	5	?

2. Compare the number of black to white circles. If the ratio remains the same, how many black circles will you have if you have 60 white circles?



Black	4	40	20	60	?
White	3	30	15	45	60

3. If 6 is 30% of a value, what is that value?

4. A credit card company charges 17% interest on any charges not paid at the end of the month. Make a ratio table to show how much the interest would be for several amounts. If your bill totals \$450 for this month, how much interest would you have to pay if you let the balance carry to the next month? Show the relationship on a graph and use the graph to predict the interest charges for a \$300 balance.

Charges	\$1	\$50	\$100	\$200	\$450
Interest	\$0.17	\$8.50	\$17	\$34	?

6. Scoring Guide

Exceeds Expectations: Student answered 4 out of 4 with various/creative reasoning.

Proficient: Student answered 4 out of 4 with reasoning.

Approaching Proficiency: Student answered 3 out of 4 with some reasoning.

Not Proficient: Student answered less than 3 with little or no reasoning.

Name: _____

6.RP.3 Exit Slip

Directions: Solve the following problems.

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