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): |
| 2.MD.10--*Draw* a picture graph and a bar graph (with single-unit scale) to *represent* a data set with up to four categories. *Solve* simple *put-together, take-apart,* and *compare* problems using information presented in a bar graph. |
| 2. Mathematical Practices |
| #1- Make sense of problems and persevere in solving them.  #4- Model with mathematics.  #5- Use appropriate tools strategically. |
| 3. I Can Statements – Put learning targets in student friendly terms. |
| I can draw a picture graph to represent data.  I can draw a bar graph to represent data.  I can solve problems by analyzing a bar graph or picture graph.  **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: |
| Students must know the difference in a picture graph and bar graph.  Students must know how to solve simple addition and subtraction problems.  Students must know vocabulary such as: representation, data, picture graph, bar graph, key, and categories. |
| 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. |
| Mrs. French and Mr. Miskey are planning a party for their classes. The students are asked to vote for their favorite ice cream flavor. The list below are the results.  Chocolate- 8 Vanilla- 7 Chocolate Chip- 13 Cookie Dough- 8 Strawberry- 5  Use the information from the list to complete the pictograph below and answer the questions.   |  |  | | --- | --- | | **Flavor** | **Number of Votes** | | Chocolate |  | | Vanilla |  | | Chocolate Chip |  | | Cookie Dough |  | | Strawberry |  |      |  | | --- | | **Key** | | http://www.abcteach.com/free/i/icecreamcone2bnw.jpg**= 1 Vote** |      1. What two flavors did the students like the least? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. How many more students voted for chocolate chip than vanilla? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. How many voted for strawberry and cookie dough together? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| 6. Scoring Guide |
| **Exceeds Expectations:** Students use the pictograph to also construct a bar graph and answer all three questions correctly.  **Proficient:**  Students represent the pictograph correctly and answer all three questions correctly.  **Approaching Proficiency:** Students missed one question or misrepresented the graph on two or less categories.  **Not Proficient:** Students misinterpreted the graph completely and answered questions incorrectly. |

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**2.MD.10 Constructed Response**

***Directions: Use the information provided to complete the chart and answer the following questions.***

Mrs. French and Mr. Miskey are planning a party for their classes. The students are asked to vote for their favorite ice cream flavor. The list below are the results.

Chocolate- 8 Vanilla- 7 Chocolate Chip- 13 Cookie Dough- 8 Strawberry- 5

Use the information from the list to complete the pictograph below and answer the questions.

|  |  |
| --- | --- |
| **Flavor** | **Number of Votes** |
| Chocolate |  |
| Vanilla |  |
| Chocolate Chip |  |
| Cookie Dough |  |
| Strawberry |  |

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| --- |
| **Key** |
| http://www.abcteach.com/free/i/icecreamcone2bnw.jpg**= 1 Vote** |

1. What two flavors did the students like the least? \_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. How many more students voted for chocolate chip than vanilla? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. How many voted for strawberry and cookie dough together? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2MD.10 Tracking Sheet

Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: 2 Skill: 2.MD.10

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| Student | 1st Attempt | | | | 2nd Attempt | | | | 3rd Attempt | | | |
| Not Proficient | Approaching Proficiency | Proficient | Exceeds Expectations | Not Proficient | Approaching Proficiency | Proficient | Exceeds Expectations | Not Proficient | Approaching Proficiency | Proficient | Exceeds Expectations |
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