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.SP.2-Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread, and overall shape.

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 describe each answer of central tendency.
2. I can answer a statistical question by describing its center, spread and overall shape.
3. I can construct a line plot from a set of data.

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-data, statistical questioning, center, spread, shape

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-matching- Working understanding of terminology
Constructive response-short; few questions using line plots

1. Define each measure of central tendency.

2. Construct a line plot using the following data:
   3, 6, 9, 12, 12, 9, 6, 3, 2, 5, 7, 7, 7

3. Using the line plot above, find the measures of central tendency.

4. Describe how you calculated the measures of central tendency.

6. Scoring Guide

Exceeds Expectations: Student answered 4 out of 4 with detailed description of each tendency.
Proficient: Student answered 4 out of 4 with some description of each tendency.
Approaching Proficiency: Student answered 3 out of 4 with vague description of each tendency.
Not Proficient: Student answered less than 3 with little or no description of each tendency.

6.SP.2 Tracking Sheet

Class: ____________________   Grade: 6   Skill: 6.SP.2

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

Name: _____

6.SP.2 – Formative Assessment

Directions: Answer the questions below. Be sure to show your work and explain your answers.

1. Define each measure of central tendency.

2. Construct a line plot using the following data:
   3, 6, 9, 12, 12, 9, 6, 3, 2, 5, 7, 7, 7

3. Using the line plot above, find the measures of central tendency.

4. Describe how you calculated the measures of central tendency.