

Mathematics CFA Template

Pre-Instruction

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

8.F.3 **Interpret** the equation $y=mx+b$ as **defining** a linear function, whose graph is a straight line; give **examples** of functions that are not linear.

2. Mathematical Practices

SMP 1. Make sense of problems and persevere in solving them.
SMP 3. Construct viable arguments and critique the reasoning of others.
SMP 7. Look for and make use of structure.

3. I Can Statements – Put learning targets in student friendly terms.

I can interpret $y=mx+b$.
I can distinguish between a linear and nonlinear function on a graph.
I can give examples of both linear and nonlinear functions.

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:

Be able to interpret a graph.
Understand the slope intercept form.

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

- Determine which of the following functions are linear.
 - $2y = 3x - 4$
 - $y = x^2 + 1$
 - $y = 3$
 - $y = \frac{1}{2}x + 10$
- Is $(A = s^2)$ a linear equation? Explain why or why not.

6. Scoring Guide

Exceeds Expectations:

Proficient: Correctly answers one and two.

Approaching Proficiency: Correctly answers either number one or two.

Not Proficient: Only partially answers number one correctly.