

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.EE.8 **Analyze** and **solve** pairs of simultaneous linear equations b.) **Solve** systems of two linear equations in two variables algebraically, and **estimate** solutions by **graphing** the equations. **Solve** simple cases by inspection.

2. Mathematical Practices

SMP 1. Make sense of problems and persevere in solving them.

SMP 4. Model with mathematics.

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

I can solve two linear equations with two variables.

I can estimate solutions by graphing the equations.

I can solve by inspection.

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:

Know the parts of and be able to graph slope intercept form.

Be able to solve multi-step equations with more than one variable.

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

1. Solve the two linear equations algebraically.

$$3x - 2y = 6$$

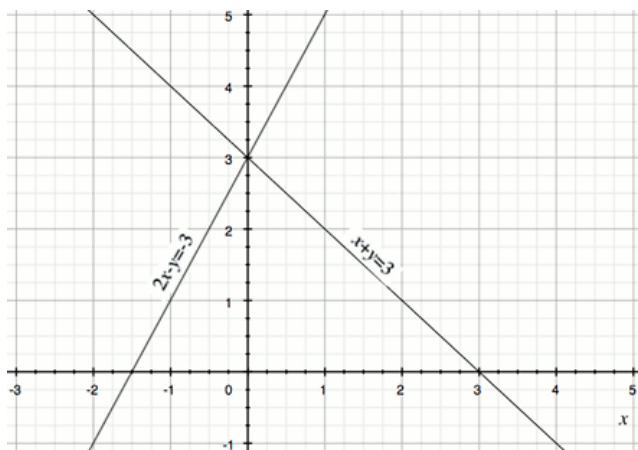
$$x - y = 1$$

2. Solve the two linear equations by graphing.

$$x + y = 5$$

$$-x + 3 = y$$

3. Determine the solution of the two linear equations below.



6. Scoring Guide

Exceeds Expectations:

Proficient: Correctly responds to all problems.

Approaching Proficiency: Correctly answers two out of three questions.

Not Proficient: Correctly answers one of the three questions.