**Tanya Cuthbert**

**PDE 3107**

**Objective:** To work collaboratively with other students to solve multiple-step equations and inequalities.

**Materials:** Internet

**Procedures:**

Students will:

1. Access the group that they have been assigned in Canvas to work collaboratively on the problem assigned. Each student can only contribute one step at a time. The next student should build off the previous step. If they do not agree, they should redo the step along with an explanation of why they did not agree and would like to do it differently.
2. Once the problem has been solved, students will reflect separately on whether or not they would have chosen the steps used in their group had they worked on the problem independently along with an explanation of why/why not.

**Grouping:**

Students will work in groups that I have assigned but will reflect individually.

**Assessment:**

Assessment will be based on collaboration within groups and individual reflection.

**Reflection:**

1. **As you reflect on the lesson, were the learners engaged in the work?  How do you know?**

Learners were engaged in the work. They all contributed. This was a little different because they were collaborating and therefore held one another accountable to contributing to the lesson.

1. **Did the learners learn what you had expected them to learn?  How do you know?**

Yes. I was able to review their problems, and ever for the ones that weren’t completed correctly, there was the dialogue amongst the students about what they thought should be done next or what corrections should be made. That was what I wanted them to learn. I was less concerned about the final answer than I was the process. I wanted them to look at their own work and the work of their peers and analyze it.

1. **What did you do to promote an experience with 21st Century learner outcomes?**

For this assignment, students collaborated and did so using technology so that they did not have to physically be together in order to get it done. I also asked them to analyze the work of their peers and form arguments when they did not agree. Finally, I had them reflect. All of those things together promote critical thinking.

1. **Did you alter your lesson plan during the lesson?  Why not?  Or if so, for what reason(s)?**

I did not alter my lesson plan during the lesson. In an online environment it is not as easy for me to alter my lesson plan midstream as it was in a traditional classroom. I don’t want to change something when students may have already started working because their schedules for when they work on the class are not the same.

1. **If you had the opportunity to facilitate this lesson again to the same group of students, what would you do differently?**

If I had the opportunity to facilitate this same lesson to this group of students I would maybe give them choices on which problems to work on. Given more time I would give them something that is more of a project than just working through problems. I might also have them come up with most common wrong answers or steps.