Angela Blair

Unit 5

Lesson 6-7

Thoughts from the lesson

1. Ahha! Moments during the activity
   a. The conclusions I was able to draw from my data collection was very interesting and I think the students will start getting excited about their final project when they get a small sampling from the data they will collect in this lesson.
2. What was difficult about this activity?
   a. I didn't cross any difficulties at this time.
3. What did you enjoy about the lesson?
   a. Reviewing the data from the responses to the survey.
4. What additional resources might be useful for teaching this lesson?
   a. I teach in a computer lab so I didn't need any other resources for this lesson. I would highly recommend doing this electronically though – while it's still possible to do it from pencil/paper – electronically is much faster and more accurate.

Extension Activity

After each group has written 4-5 survey questions, have them "group hop" and ask their questions to the other groups in the class to collect some initial data. Once they've collected the responses, ask them to chart the responses. Some will struggle to chart their results/collections because of the way their questions were written. (At this point, they should be able to analyze the effectiveness of their questioning.)

After about 10 minutes of "trying" to chart the responses and gather some sort of conclusion from data, regroup – take out a piece of paper or open a google doc or word document and answer the following questions:

- What do you wish you'd thought about before starting to collect the data?
- Do you think it's possible to think of *everything* ahead of time? If not, what steps can you take to make sure that you can recover from missteps?
- Any other data you wish you had collected from the outset?

- Anything you wish you'd specified more clearly before collecting the data?
- When designing a method for collecting a large set of data using multiple sources, what kinds of things do you need to think about?

As a class and discuss/review the responses the students wrote down for each question. After discussing the above questions, reflecting on their survey questions, have the students go back to their group and revise their questions. Once again, "group hop" and collect responses and "try" to chart those results and see if you can draw any conclusions and once again, revise the questions if necessary for the final project.

*Optional – have the students/groups turn in their google doc or word document with their responses for credit.

<u>Reflection on the lesson</u>

1. Advice for someone who is going to teach this lesson (consider what was challenging about doing the activity, what you think students will struggle with, etc.)
   a. I think students will struggle initially with charting their initial data collection because their survey questions will have open ended questions or too many or not enough variables. After they complete the extension activity however, I think they will have a better understanding of effective survey questioning.
2. What ideas do you have about how to structure and teach this lesson? What modifications do you plan to make to the lesson?
   a. I plan to use the extension lesson I have created above because I think it will best fit the needs of my own classroom. I already have computers in my classroom so collecting the data and charting it, and also answering the bulleted questions will be easier because we have access to the needed technology.
3. What additional resources (if any) might be helpful in teaching this lesson?
   a. I don't see a need for any additional resources at this time.