

## **Appendix B**

### **“Non-Example” of Technology Use**

#### Lesson Plan

Date: Electricity #3

Grade Level: 4<sup>th</sup>

Topic: Science

#### Objective(s):

1. Working in small groups students will create and experiment to test for conductivity using the scientific process. (Physical science, p.12, 4<sup>th</sup>/6<sup>th</sup>; Nature of Science, p.8, 4<sup>th</sup>/4<sup>th</sup>)
2. Students will communicate their experiment and findings to the rest of the class through a multimedia project. (Physical science, p.12, 4<sup>th</sup>/6<sup>th</sup>, Nature of Science, p.3, 4<sup>th</sup>/4<sup>th</sup>)

#### Materials:

- ❑ Student created circuits from previous experiments
- ❑ Poster with Scientific Method & Index cards
- ❑ Bag of various materials to test
- ❑ Computers with either Hyper Studio software or Power Point
- ❑ Self evaluation form

#### Lesson spans multiple days:

#### Procedures:

1. Tell: Today I am going to give you the opportunity to use what you have learned about electricity to design an experiment in which you will be able to test for conductivity. You will need to use the scientific method to guide you in this process.
2. Review scientific method. Explain use of index cards as a storyboard for project.
3. Students create a card for each step in the scientific method. The step on one side and what they are doing on the other.
4. When students are ready give them items to test.
5. Allow students opportunity to create a stack on the computer to present their findings. Correct Terminology.
6. Have students save and print presentations.
7. Fill out a self evaluation form
8. Allow students a gallery day where they can present to the class their projects.

#### Evaluation:

- ✓ Observation of students collaboratively creating a workable experiment.

- ✓ Students reported work in an electronic presentation, accurately and clearly using the scientific method.