

# Lesson Plan

Grade Level: 6

Subject: Science

Teacher: K. Hensley

## Materials Needed:

Computers  
Story Boards  
Quiz  
Alice program

## Education Standards Addressed:

### Objective 1.01

Identify and create questions and hypotheses that can be answered through scientific investigations.

### Objective 1.02

Develop appropriate experimental procedures for:

- Given questions.
- Student generated questions.

### Objective 1.04

Analyze variables in scientific investigations:

- Identify dependent and independent.
- Use of a control.
- Manipulate.
- Describe relationships between.
- Define operationally.

### Objective 1.05

Analyze evidence to:

- Explain observations.
- Make inferences and predictions.
- Develop the relationship between evidence and explanation.

### Objective 1.07

Prepare models and/or computer simulations to:

- Test hypotheses.
- Evaluate how data fit.

**Objective 1.08**

Use oral and written language to:

- Communicate findings.
- Defend conclusions of scientific investigations.

**Objective 1.09**

Use technologies and information systems to:

- Research.
- Gather and analyze data
- Visualize data.
- Disseminate findings to others.

**Objectives:**

Students will review the steps of the Scientific Method. They will use these steps to prepare a computer simulation of the appropriate experimental procedures for a given topic.

**Focus:**

I will have each student write an Acrostic Poem that defines the steps of the scientific method.

**Direct Instruction:**

I will design an Alice program that reviews the steps of the scientific method and show a demonstration of a computer simulation that demonstrates the appropriate experimental procedures for a topic.

**Guided Practice:**

Students will complete a story board that goes through each step in the scientific method for their topic.

**Independent Practice:**

Students will work independently on computers in Alice programming to demonstrate the use of the experimental procedures for their topic.

**Assessment:**

Students will be graded by rubric on their world in relation to the assignment.

**Closure:**

Class presentations of worlds and class discussion about the importance of the scientific method.