

# Scientific Inquiry Test Review

## Part 1

Applying Science Skills: observing, describing, identifying, inferring, and classifying (from methods of science worksheet - class notes)

Short answer

4 problems, 8 points

## Part 2

Steps of the Scientific Method

Ordering: Arrange in correct order

1 problem, 2 points

1. Question or Problem
2. Research or Gather Information
3. Hypothesis
4. Experiment or Test Hypothesis
5. Analyze Results or Interpret Data
6. Draw Conclusions
7. Communicate Results

Part 3

Scientific Inquiry Vocabulary (from scientific inquiry worksheet)

Matching

10 problems, 20 points

Part 4

Applying Scientific Inquiry Concepts

Multiple Choice

7 problems, 14 points

Quantitative observations	Observations that involve numbers or measurements
Qualitative observations	Observations that don't involve numbers or measurements
Independent variable	Factor that is changed in an experiment to see how it affects the dependent variable
Dependent variable	Factor that is measured and that changes due to the independent variable

Other Concepts:

- > More trials makes data and conclusions more reliable
- > When analyzing the results you look for patterns and relationships in the data
- > A testable scientific question is one you can set up a controlled experiment to test

## Part 5

Analyze an Experiment Using the Scientific Method

Multiple choice

8 problems, 16 points

Be able to identify the following:

- > the problem
- > how the scientist researched
- > the hypothesis
- > the control group and experimental groups
- > the independent variable
- > the dependent variable
- > the constants
- > the conclusion

**Scientific inquiry and methods  
of science worksheets  
due tomorrow**