

Scientific Inquiry Test Review

Part 1

Lab Safety
Matching
10 problems, 10 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

Lab Equipment

Matching

10 problems, 10 points

Study the lab equipment flashcards in portaportal

Part 4

Applying Scientific Inquiry Concepts

Multiple Choice

12 problems, 12 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

- Five of the twelve questions are about the four terms shown above.
- Two questions are about lab safety.
- Three questions are about what scientists do for certain steps of the scientific method.
- One question is about how more trials makes data and conclusions more reliable
- One question is about how 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

Part 6

Scientific Inquiry Vocabulary (from scientific inquiry worksheet)

Matching

10 problems, 10 points

**Scientific inquiry worksheet
due tomorrow**