Ch 1- Introduction to Science and Lab Safety Study Guide for the Test

First half of the test (all multiple-choice questions)

Definitions:

Inferring

Variable

Manipulated variable

hydrosphere

Oceanographer

Destructive forces

Meteorologists

Predicting

Observing

Responding variable

System

Environmental scientist

Skepticism

Hypothesis

Classifying

Qualitative observation

Quantitative observation

Analyzing

Technology

Science

Scientific Inquiry

Controlled experiment

Data

Conclusion

Astronomer

Communication

Geologist

Earth Science

Scientific law

Scientific theory

Subjective reasoning

Objective reasoning

Pseudoscience

Should you ever carry out a field investigation alone?

Do advances in technology ever depend on advances in science?

Tell a teacher before doing anything? Right or wrong?

Should you wash your hands after each lab?

If hypothesis is not supported, is that a waste of time?

First thing you should do when an accident happens.

Know the steps of the scientific method. Be able to answer questions about applying the steps to real life experiments.

Be able to pick out the independent and dependent variables from an experiment.

Second half of test (fill in the blanks and short answer)

Know the following:

1. 6 steps to the sci. inquiry process (aka sci method)
2. Difference between constructive and destructive forces
3. Purpose of technology and science and how are they related
4. Why do Earth scientists use models?
5. What is the most important safety rule?
6. Categories of technology and examples
7. Pick out independent and dependent variables when given an experiment example
8. Know lab safety symbols- study all of them.
9. How many variables change in a controlled experiment?
10. Is the first column of a data table a x or y axis?