

Format: 8 multiple choice questions and 6 open ended questions

Concepts to Review:

- Scientific Inquiry Skills
  - Understand the terms *hypothesis*, *independent variable*, *dependent variable*, *control*, and *placebo*.
  - Be able to explain how scientific ideas are different from ideas in other subjects (see Homework 2).
  - Be able to identify the independent and dependent variables in an experiment.
  - Be able to write a hypothesis in “If... then...” form.
  - Be able to identify the control group and the experimental group in an experiment.
  - Be able to identify factors that must be kept the same in both the control and experimental groups.
  - Be able to design a scientific experiment (see Homework 4 and classwork).
  - Be able to explain why it is important to repeat an experiment and use many test subjects.

Practice Quiz Questions:

- Visit the “Practice Exam Questions” page on the course website at [www.spraguescience.com](http://www.spraguescience.com).
- Click on “Scientific Inquiry and Experimental Design – Exam” and download the file.
- Try questions 1, 2, 6, 7, 8, 10, 12, 13, 19, 20, 21, 24, 25, 37, and 38 without looking at your notes.
- Check your work by downloading the answer key.

Extra Credit:

A one-time-only opportunity to earn 2 extra credit points is available on this quiz. To receive the extra points, you must visit your teacher in his or her office and ask the teacher to record the meeting in their grade book. The meeting will only count as extra credit if it is during your OPTA (you may not attend while you are programmed to be in another class) or after school, and you must report BEFORE the date of the quiz.

First Quiz Warning:

In order to be prepared for the quiz, it is strongly recommended that you study your class notes (see the page “Suggested Study Strategies” on the course webpage) and practice with the questions on the “Practice Exam Questions” page.

Remember that all the quizzes and exams this semester are designed to help you prepare for the Regents Exam. ***It is important to your teachers that you put a significant amount of time (at least two hours of studying) to be ready for this quiz.***