

# Semester Exam Study Guide

*This study guide should be used as a supplement to your studying for the Midterm exam. It should not replace going over old notes, quizzes and activities.*

1. What is the difference between a scientific theory and a scientific law? (Hint: what do both explain?)

Theory – explains why a scientific event is happening.

Law – describes what is happening in a scientific event.

2. Describe a dependent variable, independent variable, experimental group, and control group. (You may want to use an example like those we covered in class, such as an experiment testing the effects of amount of light on the rate of photosynthesis.)

3. Dependent Variable – the part of the experiment that will be measured (ex. Growth of a plant)

Independent Variable – the part of the experiment that is being changed. This is what you are assuming will affect your dependent variable. (Ex. Amount of plant food)

Experimental Group – The group that you are changing the independent variable with. (Ex. Plants that receive more food grow taller)

Control Group – The group that mimics normal conditions. This group is what you compare your results to so you can see if a change has occurred. (Ex. Plants that receive a normal amount of food.)

4. What is a hypothesis? How do we develop hypotheses?

A hypothesis is an answer to a scientific question. It is developed using research and observations. It is never a guess.

5. What are the 8 characteristics of life?

|             |                      |                   |                       |
|-------------|----------------------|-------------------|-----------------------|
| 1. Evolve   | 2. Composed of Cells | 3. Homeostasis    | 4. Reproduction       |
| 5. Heredity | 6. Metabolism        | 7. Responsiveness | 8. Growth/Development |

6. What characteristics of life do viruses possess? Which ones do they not possess? Are they considered alive?

Possess: Evolve and Heredity

Do Not Possess: All other characteristics (remember they use the host for reproduction and metabolism).

Not considered alive.

7. What type of questions can science answer?

Questions where data can be collected (not opinion/moral questions like is it wrong to steal)

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