

Scientific Method/ Characteristics of Life Quiz
NAHS Biology
28 Possible Points

Name _____

Date _____ Period _____

Use the following experiment to answer questions # 1 - 4.

A scientist testing the affects of a chemical on apple production sprays an orchard with the chemical. A second orchard does not receive the chemical. In the fall, the number of apples harvested from each forest is counted. The orchard sprayed with the chemical produces an average of 60 apples per tree, the other orchard produces an average of 40 apples per tree.

1. What is an observation made in the above experiment? _____(2)
2. What is the independent variable in the above experiment? _____(2)
3. What is the dependent variable in the above experiment? _____(2)
4. What is the hypothesis of the above experiment? _____(2)
5. Name two things that need to be kept constant in the above experiment? Explain why it is important to have constants. (3)

6. Describe one possible source of error in the above experiment. Explain how it might affect the outcome of the experiment. (2)

Pill bugs are living organisms, which you have been experimenting with in class. List three characteristics of living things and apply it to the pill bug. (3 each)

Characteristic	Description of characteristic in pill bugs
7.	
8.	
9.	