Lab 9. Population Growth: What Factors Limit the Size of a Population of Yeast?

1. Describe how the amount of food or amount of space available might influence the size of a population of organisms.

2. In a laboratory, yeast can be grown in a very controlled setting without many external influences on their population. In nature, however, conditions are constantly changing. Using what you know about population dynamics, describe what might happen to a population of organisms if the climate where they live changes.

3. *Observation* and *inference* are two words that mean the same thing.

    a. I agree with this statement.
    b. I disagree with this statement.

    Explain your answer, using an example from your investigation about population growth.

4. If scientists want to be certain about an idea, they must conduct an experiment to test it.

    a. I agree with this statement.
    b. I disagree with this statement.

    Explain your answer, using an example from your investigation about population growth.

5. Scientists often look for patterns when they are investigating the world. Explain why identifying patterns in the world is helpful, using an example from your investigation about population growth.

6. Understanding how living things go through periods of stability followed by periods of change is important for scientists. Explain why understanding the relationship between stability and change is important, using an example from your investigation about population growth.