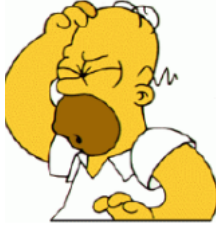


## Review Unit 1

### Scientific Method, The Cell, The Microscope

1.



Homer suddenly notices that the walls of his shower are covered in a strange green slime. His friend Barney tells him that coconut juice will get rid of the green slime. Homer decides to test this out by spraying half of the shower with coconut juice every day. He sprays the other half of the shower with water. After 3 days of "treatment" there is no change in the amount of green slime on either side of the shower.

7. What was Homer's initial observation?

\_\_\_\_\_

Identify the:

8. Hypothesis

\_\_\_\_\_

9. Control Group

\_\_\_\_\_

10. Independent Variable

\_\_\_\_\_

11. Dependent Variable

\_\_\_\_\_

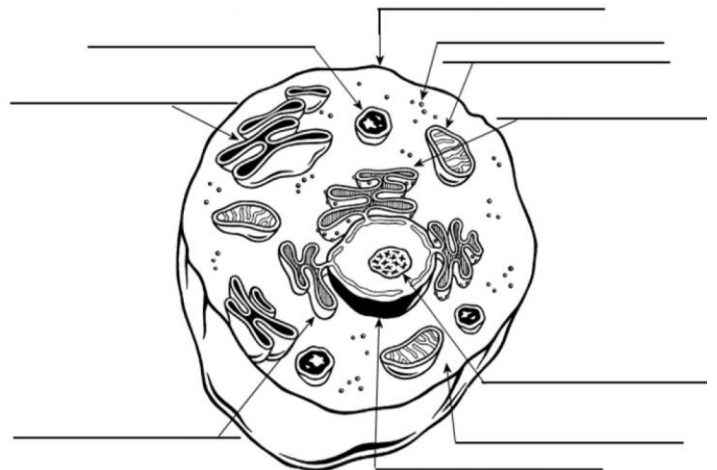
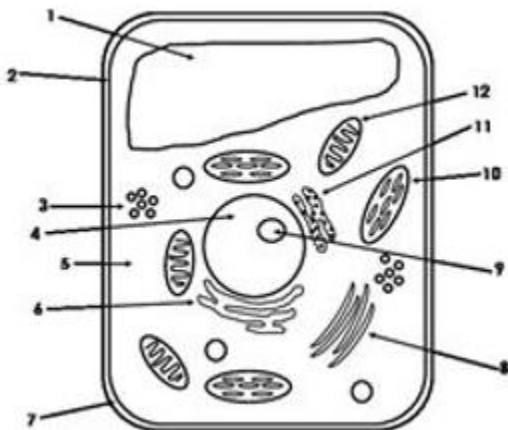
12. What should Homer's conclusion be?

\_\_\_\_\_

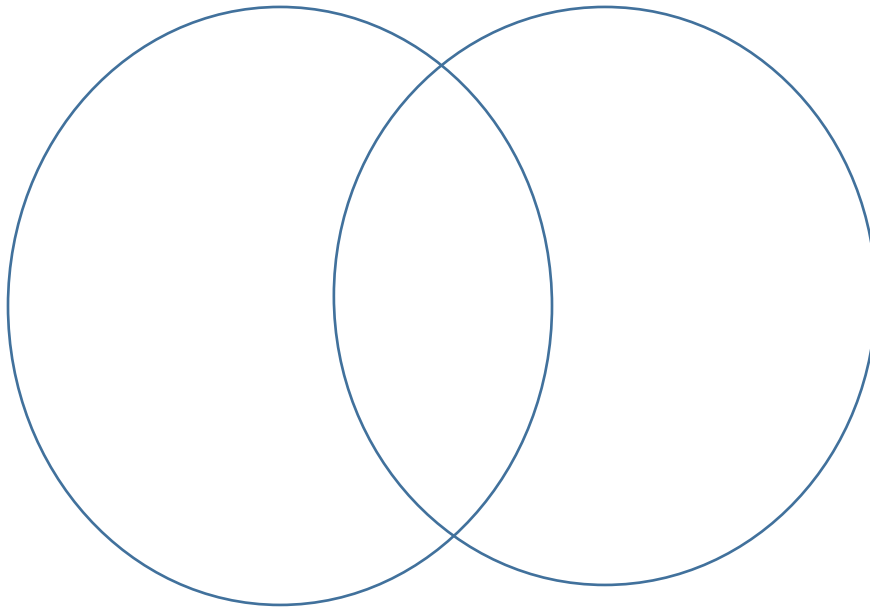
2. Complete more examples of Scientific Method from the Booklet given out at the beginning of the course to ensure you are able to correctly identify all steps to the scientific method.

3. Ensure you go through the unit overview for both Scientific method and "the cell" .

4. Label and Identify Structure and Function of Plant and Animal cell organelles. Ensure you know how to determine what kind of cell you are looking at.



5. Complete a Venn Diagram comparing Eukaryotes and Prokaryotes. Give an example of each.



6. Identify all of the parts of the microscope and their function
7. Ensure that you are familiar with how to calculate actual size, Field of view and Drawing magnification.
8. Be able to explain the organization of cells (tissue, organs etc)
9. 5 functions of a cell
- a. Obtaining Energy
    - i. Know the processes of Photosynthesis/Cellular Respiration
      - 1. Equations, locations, what they do
  - b. How organisms grow
    - i. Can an organism continue to grow indefinitely?
    - ii. Cell cycle
      - 1. Be able to identify the different stages
      - 2. What you start and finish with
  - c. How organisms reproduce
    - i. Types
      - 1. Asexual vs Sexual
    - ii. How we maintain chromosome #
      - 1. Meiosis
        - a. What do you start and finish with
        - b. Haploid vs diploid

The Compound Microscope

