
Burlingame High School: Bioskills Fall Final Review Study Guide

1. If 1 mL of water has a mass of 1 gram (1mL= 1g) and 1 cm³ is equal to 1mL (1 cm³ = 1mL) determine the answers below:
 - a. 10 cm³= g
 - b. 5g= mL
 - c. 4.2g= cm³
2. Using your decimal ladder do the following conversions:
 - a. 10 cm= _____ km (kilometers)
 - b. 250 m= _____ cm (centimeters)
 - c. 350 decigrams= _____ grams
 - d. 1,000 micrometers = _____ nanometers

Determine which of the following is the largest (start by converting all to the same measurement)

- a. 0.01 centimeters b. 1,000 nanometers c. 10 micrometers

3. Give an example of a quantitative observation AND a qualitative observation.

Use the scenario below to answer questions 5-7



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

1. What is the control in this experiment?
2. Create a hypothesis for this experiment
3. What should the conclusion be for Homer's experiment?
4. In order for the results to be generally accepted, what should Homer do now?

5. What is the instrument to the right used to measure?
6. About how many milliliters are being measured in the graduated cylinder?

