

Biology 10

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Lab Practical 1 Practice Questions

Lab 1:

1. What is the basic unit for volume in the metric system?
2. How many meters are in 3 kilometers?
3. How many kilometers are in 3 meters?
4. What observation inspired the study on Lake Merritt?
5. What were the labels of the x- and y-axis in your graph of the Lake Merritt experiment?

Lab 2:

1. What does pH stand for?
2. What is capillarity?
3. If a buffer is present when an acid is added to solution, how will the pH of the solution change?
4. When water freezes, how does its density change?
5. What is the molecular formula for water?

Lab 3:

1. How do lenses affect light in a compound (light) microscope?
2. When switching from 4x to 10x, does the field of view get bigger or smaller?
3. How did we measure the working distance for each lens?
4. What is the start position of the microscope?

5. How would you determine the size of an object when looking at it through the microscope?

Lab 4:

1. What are the monomers and polymers of carbohydrates?
2. In the protein experiment, the addition of Biuret reagent in the presence of what type of bond turned the solution purple?
3. Were you surprised that the potato juice tested negative for starch? Why might have this result occurred?
4. What is the primary structure of a protein?
5. What is the difference between a saturated and unsaturated fat?