



Lab 1: Worksheet

1. The rev. Adjustment coarse/fine focus of a compound microscope can be adjusted to maximize the resolution. The condenser lens focus the light at the level of the specimen.
2. True or False? You can use either the coarse or fine focus when viewing through the 10 $\times$ objective. False (use Fine focus)
3. The *Paramecium* below was viewed through a 40 $\times$ objective lens. Estimate the length (i.e., the longest dimension) of this organism in millimeters.



$$\begin{aligned}
 \text{Actual size of cell} &= \frac{\text{diameter of field of view}}{\% \text{ of times organism can fit in field of view (largest dimension)}} \\
 40\times &= 0.44\text{mm} \\
 &= \frac{0.44\text{mm}}{\text{approx } 3.5} \\
 &= 0.125714\ldots\text{mm} \\
 \text{Paramecium is } &0.13\text{mm}
 \end{aligned}$$

4. Fill in the blank:
 - a. Prokaryotic organisms include two major groups, bacteria and archaea. Eukaryotes are comprised of four major groups: protists, fungi, plants, and animals.
 - b. Prokaryotes have a cell wall made of polysaccharides and amino acids, while the same structure in plants is composed of cellulose and in fungi is chitin.
 - c. Prokaryotic DNA is typically organized in a single circular chromosome, located in the nucleoid region. Eukaryotes, in contrast, store DNA in their nucleus.
 - d. Some bacterial cells have a gelatinous outer covering called a glycocalyx. What is the function of this structure?
 - Protects the bacterium from desiccation
 - Traps water
 - e. Other bacteria use rotating flagella for locomotion.

Vista Suenas Lab Manual Answers

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web the six no_3^- aq ions and the six na^+ aq ions that appear on both sides of the equation are spectator ions that can be canceled to give the net ionic equation $3\text{ba}^{2+} \text{aq} + 2\text{po}_4^{3-} \text{aq} \rightarrow \text{ba}_3\text{po}_4 \text{s}$

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web these spectator ions ions whose presence is required to maintain charge neutrality are neither chemically nor physically changed by the process and so they may be eliminated from the equation to yield a more succinct representation called a

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chemical change spectator ions an ion that is not directly involved in a chemical reaction an ion that does not change oxidation number or composition during a reaction products

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web the equation below is the final net ionic equation after elimination of the spectator ions which yields water $\text{h}^+ \text{aq} + \text{oh}^- \text{aq} \rightarrow \text{h}_2\text{O} \text{l}$ the spectator ions in $\text{koh} \text{aq}$ and $\text{hno}_3 \text{aq}$ are $\text{k}^+ \text{aq}$ and $\text{no}_3^- \text{aq}$ how to identify and list the

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web the $\text{ag}^+ \text{aq}$ and $\text{cl}^- \text{aq}$ ions become $\text{agcl} \text{s}$ but the $\text{na}^+ \text{aq}$ ions and the $\text{no}_3^- \text{aq}$ ions stay as $\text{na}^+ \text{aq}$ ions and $\text{no}_3^- \text{aq}$ ions these two ions are examples of spectator ions ions that do nothing in the overall course of a chemical reaction

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web aug 8 2022 a spectator ion is an ion that does not take part in the chemical reaction and is found in solution both before and after the reaction the net ionic equation is the chemical equation that shows only those elements compounds and ions that are directly involved in the chemical reaction

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