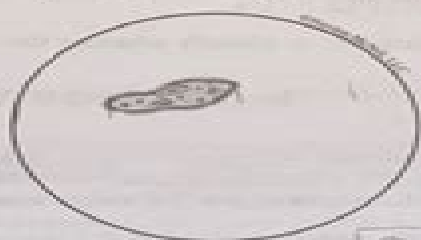




Lab 1: Worksheet

1. The iris diaphragm adjustment lever 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 10X objective. False (use fine focus)
3. The *Paramecium* below was viewed through a 40X objective lens. Estimate the length (i.e., the longest dimension) of this organism in millimeters.



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

Paramecium at 0.13mm

4. Fill in the blanks:
 - 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.

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J Elliott



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1. Understanding the eBook Bio 120 Laboratory Manual Answers Key
 - The Rise of Digital Reading Bio 120 Laboratory Manual Answers Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Bio 120 Laboratory Manual Answers Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Bio 120 Laboratory Manual Answers Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Bio 120 Laboratory Manual Answers Key
 - Personalized Recommendations
 - Bio 120 Laboratory Manual Answers Key User Reviews and Ratings
 - Bio 120 Laboratory Manual Answers Key and Bestseller Lists
5. Accessing Bio 120 Laboratory Manual Answers Key Free and Paid eBooks
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 - Bio 120 Laboratory Manual Answers Key eBook Subscription Services
 - Bio 120 Laboratory Manual Answers Key Budget-Friendly Options
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- Bio 120 Laboratory Manual Answers Key Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Bio 120 Laboratory Manual Answers Key
 - Highlighting and Note-Taking Bio 120 Laboratory Manual Answers Key
 - Interactive Elements Bio 120 Laboratory Manual Answers Key
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Bio 120 Laboratory Manual Answers Key
- 9. Balancing eBooks and Physical Books Bio 120 Laboratory Manual Answers Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Bio 120 Laboratory Manual Answers Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Bio 120 Laboratory Manual Answers Key
 - Setting Reading Goals Bio 120 Laboratory Manual Answers Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Bio 120 Laboratory Manual Answers Key
 - Fact-Checking eBook Content of Bio 120 Laboratory Manual Answers Key
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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