

Lab # ____: Using a Compound Light Microscope

Lab Skills: 6, 8, 13, 23

Background: The microscope is an important scientific tool. It enables a person to observe things too small to be seen with the unaided eye. A compound microscope has at least two lenses in it. Light passes through the specimen from a lamp underneath the specimen. The objective causes the light rays coming from the specimen to spread apart, forming an enlarged image of the object. The second lens is located in the eyepiece and is referred to as the ocular. It focuses and further enlarges the image.



Working with a compound light microscope, you may use specimens that have been prepared in one of two ways. A prepared slide is made to be permanent by science manufacturing companies. A wet mount slide, on the other hand, is made for temporary use, but can be made by you. During this lab you will gain experience using a microscope properly.

Hypothesis: if the lenses of a microscope magnify an image, then... (tell me what will happen to the appearance of the specimen observed.)

Procedure:

Part 1 – Learning about the microscope...

1. The proper way to carry a microscope is in the upright position with one hand holding the arm and the other supporting the base. You should always use the microscope away from the edge of your lab table. Also, check to make sure that the electrical cord is not dragging through water or interfering with your work area in any way.
2. Refresh your memory of the parts of a microscope. Compare the parts shown in the diagram to the actual parts of the microscope.
3. Examine the diaphragm. Adjust it to the largest opening so that the greatest amount of light possible enters the microscope. Look through the eyepiece and **describe what happens when you slowly rotate the dial to the lowest light setting** on a sheet of lined paper labeled with each step for which you need to record a response.
4. Look at the microscope from the side. Slowly turn the coarse adjustment one-half turn clockwise. **In which direction does the stage move?**
5. Look at the number followed by an "X" on the side of each objective. This number is the objective's magnifying power. The "X" stands for "times." The number tells how many times an object is magnified by that lens. **What is the magnifying power of the low-power objective?**
6. Locate the high-power objective. **What is its magnifying power?**
7. If the lenses ever look dirty or smudged notify your teacher. Use special lens cleaning towels only because other kinds can damage the lenses.
8. The eyepiece, or ocular lens, also has a magnifying power. The total magnification of the microscope is calculated by multiplying the power of the eyepiece by the magnification of the objective. If the power of the eyepiece is 5X and the objective is 10X, then the total magnification of the image is $5X \times 10X = 50X$.
9. Examine the eyepiece. **What is its magnification?**
10. **What is the total magnification produced at low power? Show your work.**
11. **What is the total magnification produced at medium power? Show your work.**
12. **What is the total magnification produced at high power? Show your work.**



Compound Microscope Lab Answers

Richard Bailey



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Table of Contents Compound Microscope Lab Answers

1. Understanding the eBook Compound Microscope Lab Answers
 - The Rise of Digital Reading Compound Microscope Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Compound Microscope Lab Answers
 - 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 Compound Microscope Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Compound Microscope Lab Answers
 - Personalized Recommendations
 - Compound Microscope Lab Answers User Reviews and Ratings
 - Compound Microscope Lab Answers and Bestseller Lists
5. Accessing Compound Microscope Lab Answers Free and Paid eBooks
 - Compound Microscope Lab Answers Public Domain eBooks
 - Compound Microscope Lab Answers eBook Subscription Services

- Compound Microscope Lab Answers Budget-Friendly Options
- 6. Navigating Compound Microscope Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Compound Microscope Lab Answers Compatibility with Devices
 - Compound Microscope Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Compound Microscope Lab Answers
 - Highlighting and Note-Taking Compound Microscope Lab Answers
 - Interactive Elements Compound Microscope Lab Answers
- 8. Staying Engaged with Compound Microscope Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Compound Microscope Lab Answers
- 9. Balancing eBooks and Physical Books Compound Microscope Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Compound Microscope Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Compound Microscope Lab Answers
 - Setting Reading Goals Compound Microscope Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Compound Microscope Lab Answers
 - Fact-Checking eBook Content of Compound Microscope Lab Answers
 - 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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