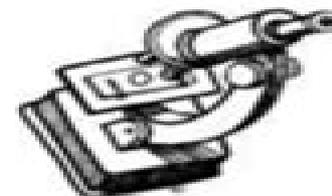


Lab # ____: Using a Compound Light Microscope

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 Light Microscope Lab Report Answers

**United States. Environmental
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Anatomy & Physiology Laboratory Manual and E-Labs E-Book Kevin T. Patton, 2018-01-24 Using an approach that is geared toward developing solid logical habits in dissection and identification the Laboratory Manual for Anatomy and coloring exercises offer a kinesthetic experience useful in retention of content User friendly spiral binding allows for hands free viewing in the lab setting Step by step dissection instructions with accompanying illustrations and photos cover anatomical models and fresh or preserved specimens and provide needed guidance during dissection labs The dissection of tissues organs and entire organisms clarifies anatomical and functional relationships 250 illustrations including common histology slides and depictions of proper procedures accentuate the lab manual s usefulness by providing clear visuals and guidance Easy to evaluate tear out Lab Reports contain checklists drawing exercises and questions that help you demonstrate your understanding of the labs you have participated in They also allow instructors to efficiently check student progress or assign grades Learning objectives presented at the beginning of each exercise offer a straightforward framework for learning Content and concept review questions throughout the manual provide tools for you to reinforce and apply knowledge of anatomy and function Complete lists of materials for each exercise give you and your instructor a thorough checklist for planning and setting up laboratory activities allowing for easy and efficient preparation Modern anatomical imaging techniques such as computed tomography CT magnetic resonance imaging MRI and ultrasonography are introduced where appropriate to give future health professionals a taste for and awareness of how new technologies are changing and shaping health care Boxed hints throughout provide you with special tips on handling specimens using equipment and managing lab activities Evolve site includes activities and features for students as well as resources for instructors

Learning About Cells, Grades 4 - 12 Debbie Routh, 2006-01-01 Introduces students to the fascinating world of cells Students learn what cells are how to use a microscope the parts of the cells and how cells live and reproduce

Microbiology: Laboratory Theory and Application, Essentials, 2nd Edition Lourdes Norman-McKay, Michael J Leboffe, Burton E Pierce, 2022-01-14 This newest addition to the best selling Microbiology Laboratory Theory Application series of manuals provides an excellent value for courses where lab time is at a premium or for smaller enrollment courses where customization is not an option The Essentials edition is intended for courses populated by nonmajors and allied health students and includes exercises selected to reflect core microbiology laboratory concepts **Instructor's Manual for the Laboratory Manual for Starr and Taggart's Biology : The Unity and Diversity of Life and Starr's Biology Concepts and Applications** James W. [et. al]. Perry, 2002 [Report summaries](#) United States. Environmental Protection Agency, 1983 **Instructor's Manual for Perry and Morton's Laboratory Manual for Starr and Taggart's Biology, the Unity and Diversity of Life and Starr's Biology, Concepts and Applications** Joy B. Perry, 1992 *Chapter Resource 43 Reproduction/Developmental Biology* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2004 **The**

American Biology Teacher ,2007 *Modern Biology*, 1991 Albert Towle,1989 **Anatomy and Physiology Laboratory Manual** Gerard J. Tortora,1986 *Laboratory Manual for Introductory Biology* Carl S. Lieb,Jerry D. Johnson,Lillian F. Mayberry,Reuven Lazarowitz,2002-06 **Nuclear Science Abstracts** ,1976 **Pharmacognosy** Simone Badal McCreath,Yuri N. Clement,2023-10-13

Pharmacognosy Fundamentals Applications and Strategies Second Edition represents a comprehensive compilation of the philosophical scientific and technological aspects of contemporary pharmacognosy The book examines the impact of the advanced techniques of pharmacognosy on improving the quality safety and effectiveness of traditional medicines and how pharmacokinetics and pharmacodynamics have a crucial role to play in discerning the relationships of active metabolites to bioavailability and function at the active sites as well as the metabolism of plant constituents Structured in seven parts the book covers the foundational aspects of Pharmacognosy the chemistry of plant metabolites their effects other sources of metabolites crude drugs from animals basic animal anatomy and physiology technological applications and biotechnology and the current trends in research New to this edition is a chapter on plant metabolites and SARS Cov 2 extensive updates on existing chapters and the development of a Laboratory Guide to support instructors execute practical activities on the laboratory setting Covers the main sources of natural bioactive substances Contains practice questions and laboratory exercises at the end of every chapter to test learning and retention Describes how pharmacokinetics and pharmacodynamics play a crucial role in discerning the relationships of active metabolites to bioavailability and function at active sites Includes a dedicated chapter on the effect of plant metabolites on SARS CoV 2

Laboratory Guide to Biology Charles F. Lytle,1987 [Life Lab Manual](#) Ricki Lewis,1994-09 *Biology* ,1999 *Biology* Eric Strauss,Marylin Lisowski,2000 *Discoveries in Physics for Scientists and Engineers* Leonard H. Greenberg,1975 1st ed has title Discovery in physics **Laboratory Exercises in Microbiology** John P. Harley,2004-02 Provides an introduction to laboratory techniques and principles that are important in each area of microbiology This work is prepared to accompany Prescott et al s Microbiology 6 e *Biology, an Environmental Approach* Biological Sciences Curriculum Study,1972

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