

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.**



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Core Science Lab Manual with Practical Skills for Class IX V. K. Sally, Chhaya Srivastava, Goyal Brothers Prakashan, 2019-01-01 Goyal Brothers Prakashan *Laboratory Exercises in Microbiology* Robert A. Pollack, Lorraine Findlay, Walter Mondschein, R. Ronald Modesto, 2018-07-11 The Laboratory Exercises in Microbiology 5e by Pollack et al presents exercises and experiments covered in a 1 or 2 semester undergraduate microbiology laboratory course for allied health students The labs are introduced in a clear and concise manner while maintaining a student friendly tone The manual contains a variety of interactive activities and experiments that teach students the basic concepts of microbiology The 5th edition contains new and updated labs that cover a wide array of topics including identification of microbes microbial biochemistry medical microbiology food microbiology and environmental microbiology **Exploring Biology in the Laboratory: Core Concepts** Murray P. Pendarvis, John L. Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where abbreviated coverage is desired Based on the two semester version of Exploring Biology in the Laboratory 3e this Core Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act on the diversity that we see around us today *Literacy in Science and Technology, Grades 6 - 8* Schyrlet Cameron, Suzanne Myers, 2014-01-15 Literacy in Science and Technology Learning Station Activities to Meet CCSS builds student interest allows for inquiry and increases student achievement Includes Common Core State Standards matrices Can be used for center activities whole class instruction or individual assignments Topics include Electricity Science Lab Skills Space Exploration Periodic Table of Elements Volcanoes and Plate Tectonics Mark Twain Media Publishing Company specializes in providing captivating supplemental books and decorative resources to complement middle and upper grade classrooms Designed by leading educators the product line covers a range of subjects including mathematics sciences language arts social studies history government fine arts and character Mark Twain Media also provides innovative classroom solutions for bulletin boards and interactive whiteboards Since 1977 Mark Twain Media has remained a reliable source for a wide variety of engaging classroom resources Regents Exams and Answers: Living Environment Revised Edition Barron's Educational Series, Gregory Scott Hunter, 2021-01-05 Barron's Regents Exams and Answers Living Environment provides essential review for students taking the Living Environment Regents including actual exams administered for the course thorough answer explanations and comprehensive review of all topics This edition features Four actual Regents exams to help students get familiar with the test format Comprehensive review questions grouped by topic to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test taking strategies Laboratory Manual for Anatomy and Physiology

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