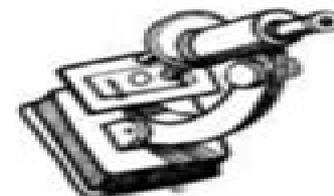


Lab # ____: Using a Compound Light Microscope

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

Albert Kaskel



Compound Microscope Lab Answers:

The Enigmatic Realm of **Compound Microscope Lab Answers**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Compound Microscope Lab Answers** a literary masterpiece penned by way of a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of people who partake in its reading experience.

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. 1. Wile?
. 2. What does the /etc/resolv.conf file do? What do the nameserver lines in
. 1 Answers to Chapter 3, Odd-numbered Exercises 1 Answers to Chapter 3, Odd-numbered Exercises. 1) $r(n) = 25r(n - 1) + 3r(n - 2) + 10n - 1$. There are $25r(n - 1)$ identifiers satisfying the first condition, $3r ...$ Vim Question - Single command to swap words Jan 5, 2012 — Hi, I'm working through Sobell's book Linux Commands, Editors and Shell ... odd-numbered exercises (for which he does not publish the answers). Why do textbooks often include the solutions to odd or ... Jun 18, 2019 — My question is, why do textbooks often include the solutions to odd or even numbered problems but not both? In my case, I don't think space is ... KIB-Monitor-Manual.pdf I hope this resource makes your RV repairs easier, as it has mine, but please be careful and follow proper safety practices when attempting to repair your own ... Monitor Panel We at KIB are very excited about the K-Panel series of monitors. We feel this will ... DIAGNOSIS GUIDE FOR THE KIB MONITOR SYSTEM. ISOLATE THE MALFUNCTION. A ... 1 DIAGNOSIS GUIDE FOR THE KIB MONITOR SYSTEM DIAGNOSIS GUIDE FOR THE KIB MONITOR SYSTEM. Page 2. 2. ISOLATE THE MALFUNCTION. MONITORING PANEL. 1) PRINTED CIRCUIT BOARD. (1) DAMAGE. 1. SHORT CIRCUIT. 2. Question about KIB systems monitor Oct 5, 2010 — I went to KIB's website, but found no info. Any help on how the battery systems monitor is supposed to operated would be greatly appreciated. KIB M Panel Troubleshooting Manual Technical Service Manuals. Catalog. KIB M Panel Troubleshooting Manual. SKU: KIB M Panel Troubleshooting Manual. Description. KIB M Panel Troubleshooting Manual. KIB Multi-Plex

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