

Microscope Handling Guide

A microscope is a tool that allows the human eye to perceive matter less than 0.1 mm in diameter. Microscope lenses can magnify the image of an object up to about one thousand times. The instrument is a staple of biological laboratories that study single-celled life or organ tissue.

Parts of a Microscope



Microscope Care

- Handle the microscope gently. To move or carry it, hold it by its arm with one hand and support the base with the other hand.
- Lenses are very delicate and should not be touched directly. To clean the objective lenses, wipe them gently with a lens-free cloth.
- Do not allow the stage or a specimen to directly contact the objective lenses.
- Use a soft cloth and disinfectant glass cleaner to carefully clean and disinfect the microscope eyepiece after every use.
- Individuals with eye infections should not use or clean microscopes.

How to View a Specimen

1. Press the switch on the microscope base to turn on the light collector.
2. Place a slide on the stage so that the specimen you want to view is right above the illuminator. Secure it in place with the specimen clippers.
3. Choose the lowest magnification by rotating the nosepiece holding the low-power objective (10x) above the specimen. Look through the eyepiece to locate your specimen on the slide. If the specimen is not visible, physically move the slide on the microscope stage until it's in view.
4. Look through the eyepiece and use the focusing knob to slowly adjust the height of the stage until the specimen comes slowly into focus. Reduce the illuminator to a lower setting if the light collector is too bright.
5. To increase the magnification, rotate the nosepiece to the 10x or 40x power objective lens, and re-adjust the knob until the specimen comes into focus. To calculate the total magnification with a particular objective, multiply the eyepiece power by the objective power.

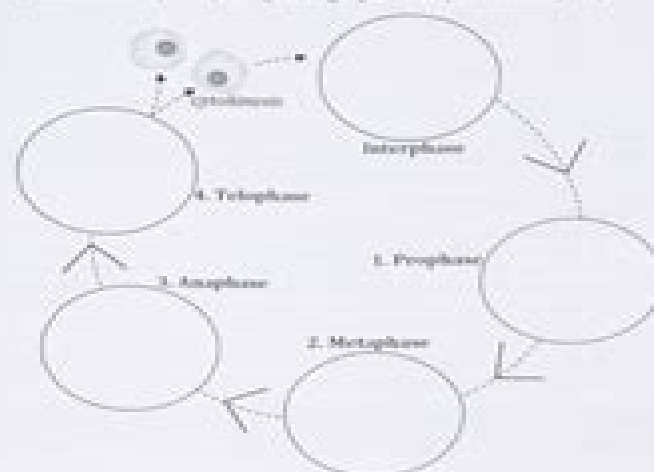
Name _____ Date _____

Animal and Plant Cell Mitosis Investigation

Section 1: Can the stages of mitosis be identified in *ascaris* (nematode) egg cells? Follow the procedure to investigate the question and then answer the questions that follow.

Procedure

1. Locate and diagram cells on the *ascaris* mitosis prepared slide in interphase, then in each stage of mitosis (prophase, metaphase, anaphase, and telophase) using the high-power objective lens (40x).



Seventh Grade Laboratory Manual

M Mosston



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