

Mitosis Onion Root Lab via Prepared Slides

Purpose: To look at prepared slides of Onion root tips from longitudinal section slides in order to view actual cells undergoing stages of Mitosis. This lab's second purpose is to further practice using a compound microscope properly and independently. The lab's third purpose is to properly draw what we see to proper scale.

To learn how to calculate drawing magnifications.

Materials: Round petri-dish or compass, pen, pencil, ruler, compound microscope, prepared onion tip slides, lined and blank paper.

Procedure: Identify and neatly draw 3 different stages of mitosis to proper scale as seen with a microscope.
To calculate the drawing magnification.

Conclusion:

The lab that I completed required me to observe and hopefully identify 3 different stages of mitosis in an onion root longitudinal section slide. Challenges that I encountered which might have lead to possible mistakes were scratch objective lenses, dirty lenses and poor quality slides. On thing for sure that I learned was to engage my problem solving skills when trying to identify certain mitosis stages.