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Lab Section: 03

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Materials Used:

* Compound light microscope
* Prepared slides (colored threads, plant cells, animal cells, protozoan cells)
* Glass slides and coverslips
* Micrometer ruler
* Distilled water

**Experiment Description:**

This lab aimed to develop proficiency in using a compound light microscope and examine various cellular structures. The experiment involved multiple steps, including microscope calibration, field diameter measurement, and observing plants, animals, and protozoan cells.

First, we set up and adjusted the microscope, ensuring proper illumination and focus. We then measured the field diameter using a micrometer ruler to estimate cell sizes accurately. Next, we observed prepared slides of plant and animal cells, identifying key cellular structures such as the nucleus, cytoplasm, and cell wall. Finally, we examined live protozoan specimens to classify them based on their shape and movement mechanisms.

This experiment reinforced the importance of microscopy in biological studies and provided insight into the structural differences between plant, animal, and protist cells.