

Magnetic Mitosis Demonstration Worksheet

Observations

Draw each stage of mitosis as demonstrated by your instructor.

Discussion Questions

1. Referring to the drawings above, describe what is happening during each stage of mitosis.
2.
 - a. Approximately what percentage of the cell's life cycle is spent in the mitotic phase?
 - b. Imagine looking at a microscope slide that contains 130 cells. Estimate how many cells on the slide will be undergoing the process of mitosis. Explain your reasoning.
3. Why is it important that the microtubules have the ability to stretch?
4. During prometaphase the microtubule attaches to the chromosomes at a location called the kinetochore. Explain why this chromosome component is necessary for successful mitosis.