

SPARK Science Lab Worksheet

SPARK Hybrid Education Center | Upper Oct Lab Wk2: Mitosis & Meiosis

Student Name: _____

Date: _____

Purpose

Investigate: Mitosis & Meiosis

Materials

- * Materials for advanced mitosis & meiosis lab
- * Protective equipment
- * Data sheets
- * Calculator

Procedure

1. Review background: Cell cycle: G1, S, G2, M phases; mitosis stages in detail vs
2. Form a detailed hypothesis with expected data ranges.
3. Conduct lab: Onion root tip microscope lab: count and identify mitosis st
4. Record quantitative data with units.
5. Calculate results and determine percent error where applicable.

Data / Observations Table

Trial/Sample	Independent Variable	Dependent Variable M	Calculated Value	% Error

Analysis Questions

1. What was the quantitative result of this Mitosis & Meiosis lab?

2. Was your hypothesis supported? Cite specific data values.

3. Calculate the percent error if an accepted value is known.

4. What systematic error might affect these results? How would you eliminate it?

Conclusion

In my own words, what did I learn from this lab?