

SPARK Science Lab Worksheet

SPARK Hybrid Education Center | Upper Mar Lab Wk2: Data Analysis

Student Name: _____ Date: _____

Purpose

Investigate: Data Analysis

Materials

- * Materials for advanced data analysis lab
- * Protective equipment
- * Data sheets
- * Calculator

Procedure

1. Review background: Spreadsheets: formulas, sorting, filtering, pivot tables; st
2. Form a detailed hypothesis with expected data ranges.
3. Conduct lab: Import real climate dataset; create charts; identify trends
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 Data Analysis 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?