

SPARK Science Lab Worksheet

SPARK Hybrid Education Center | Upper Feb Lab Wk2: Climate Science

Student Name: _____ Date: _____

Purpose

Investigate: Climate Science

Materials

- * Materials for advanced climate science lab
- * Protective equipment
- * Data sheets
- * Calculator

Procedure

1. Review background: Earth's energy budget; greenhouse effect mechanisms; climate
2. Form a detailed hypothesis with expected data ranges.
3. Conduct lab: Interpret NASA climate data; model climate projections for F
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 Climate Science 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?