

SPARK Science Lab Worksheet

SPARK Hybrid Education Center | Upper Mar Lab Wk4: AI & Emerging Technology

Student Name: _____

Date: _____

Purpose

Investigate: AI & Emerging Technology

Materials

- * Materials for advanced ai & emerging technology lab
- * Protective equipment
- * Data sheets
- * Calculator

Procedure

1. Review background: How AI/ML works; training data; applications in science and
2. Form a detailed hypothesis with expected data ranges.
3. Conduct lab: Explore AI tools; evaluate AI-generated content for accuracy
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 AI & Emerging Technology 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?