

SPARK Science Lab Worksheet

SPARK Hybrid Education Center | Upper Jan Lab Wk4: Magnetism & Electromagnetism

Student Name: _____

Date: _____

Purpose

Investigate: Magnetism & Electromagnetism

Materials

- * Materials for advanced magnetism & electromagnetism lab
- * Protective equipment
- * Data sheets
- * Calculator

Procedure

1. Review background: Magnetic fields; electromagnetic induction; motors and gener
2. Form a detailed hypothesis with expected data ranges.
3. Conduct lab: Build a simple electromagnet; vary current and measure stren
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 Magnetism & Electromagnetism 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?
