

SPARK Science Lab Worksheet

SPARK Hybrid Education Center | Upper Jan Lab Wk2: Waves & Properties

Student Name: _____

Date: _____

Purpose

Investigate: Waves & Properties

Materials

- * Materials for advanced waves & properties lab
- * Protective equipment
- * Data sheets
- * Calculator

Procedure

1. Review background: Transverse vs longitudinal; wavelength, frequency, amplitude
2. Form a detailed hypothesis with expected data ranges.
3. Conduct lab: Slinky wave lab: transverse and longitudinal; calculate wave
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 Waves & Properties 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?