Northeastern University

Report for Experiment #N
Lab Name

Name
Lab Partner: Name
TA: Name
Date

Abstract:

– Summarize motivation and main results.

Introduction:

– State motivation – why you did this work?
– Describe physics phenomena and methods of study.
– Cover all investigations, keep short.

Experimental Data:

– For each investigation: Discuss experimental set-up.
– Explain experimental procedure.
– Describe how the data were collected.
– Include all data using graphs/tables, with titles.
– If needed, include truncated raw data into Appendix.

Analysis:

– Summarize physics concepts under investigation.
– Discuss relation between data and theory.
– Describe techniques used to analyze data.
– Discuss sources/values of uncertainties in your measurement.
– Write down main results with uncertainties.
– Compare measured quantities to expected values.
– Discuss if they match or not your expectations.
– List the unaccounted factors in your analysis.
– Argue why and how external factors may affect the results.

Conclusion:

– List physical concepts that have been investigated.
– Summarize all main results that you obtained.
– Discuss how external factors might have skewed the results.
– Discuss possible improvements.
– Keep to half a page.

Questions:

– Answer all questions at the end of experiment in the IPL Manual.
– Type all necessary algebra, not just the answer.
– Honors sections must answer extra question.