

## General Lab Rubric

<b>0</b>	Not present
<b>1</b>	Poor
<b>2</b>	Needs improvement
<b>3</b>	Good
<b>4</b>	Excellent – Good and shows synthesis of ideas

## ABC Lab Rubric

### C-level

- ✓ Group written response from random group lab journal coupled with group oral questioning.
- ✓ Must work in assigned group.
- ✓ Must get at least a 3 on the C-level lab to get credit for any B-level or A-level work.

### B-level

- ✓ Group summary of quantitative basic lab.
- ✓ Must work in assigned group.
- ✓ Must get at least a 2 on the B-level lab to get credit for any A-level work.

<b>1</b>	Multiple elements missing. Incorrect use of equipment or basic experimental technique not used.
<b>2</b>	Missing uncertainty in measured quantities (+/-) Incomplete graph (error bars and labels)
<b>3</b>	All elements present – at least 75% correct Nice experimental graph with best fit line.
<b>4</b>	All elements correct. Succinct summary touching on relevant physics. Theory plotted on same graph as experimental data for comparison.

### A-level

- ✓ Group summary of advanced lab activity. The exact activity is up to each group to formulate. The A-level allows for more inquiry-based investigations. Results must still be quantitative (usually) and include error.
- ✓ May work with anyone. (People do not need to work in their assigned group.)
- ✓ Often an A-level activity will be a B-level lab the following week.

<b>1</b>	Activity lacks purpose and focus.
<b>2</b>	Missing uncertainty in measured quantities (+/-)
<b>3</b>	Drawing of experimental setup with relevant quantities specified. Appropriate graph included (with error bars, labels and line fit).
<b>4</b>	Project investigates relevant physics. All elements correct with succinct interpretation of physics (see above)