Postlab Rubric

Name: _______________________

___ Postlab must contain appropriate header information. Up to 2 pts may be deducted for lack of header information (name, group name, date of lab, lab title, lab section# and/or TA name).

___ (3) Raw Data, Field Notes, Observations. Students include ALL data collected in the normal course of the lab activity, including drawings, sketches, numerical data, and personal commentary about methods and observations. Data may be hand-written, but must be accompanied by appropriate labels, titles, units of measure, and other relevant details that clearly convey the nature of the data. Drawings, models, and sketches represent relevant and important structures and components.

___ (3) Data Analysis and Results. Summary data is organized in clearly labeled tables, graphs, and figures that are appropriate to the type of data. Titles, legends, keys, and other descriptors contribute to organization and clarity of the data. Data analyses indicate proper use of formulas and statistics (if applicable) and are free from calculation errors.

___ (3) Conclusions. Students clearly and concisely summarize their results overall with reference to the original purpose of the lab or hypothesis being tested. Conclusions are logical and sensible based on the data presented. Students use appropriate language when connecting their findings to the original purpose/hypothesis of the lab (e.g., “prove”).

___ (3) Reflections. Students demonstrate personal knowledge gain resulting from their activities and/or observations in lab and are able to expand this to the “bigger picture”. Students may link skills they have acquired to the context of their own professional development as scientists. Where appropriate, students are able to offer alternative interpretations of data, critically evaluate methods, or suggest additional directions for future study that expand their understanding of the lab completed (e.g., “if I were to continue this study in the future, I would next. . .”).

___ (12) Total. Comments:

Grading Criteria:

The Purpose and Methods Summary are each worth 3 pts and will be graded as follows:

3 – Student has met or exceeded the expectations defined in the prelab rubric.
2 – Student has met some to most of the expectations defined in the prelab rubric, but areas for improvement are noted.
1 – Student has met few, if any, of the expectations defined in the prelab rubric. There is significant room for improvement.
0 – Students failed to complete the required prelab element.