CHEM 1061 LAB PROJECT PRESENTATION EVALUATION CRITERIA

The following criteria should be considered when grading presentations of classmates. You will rate the criteria listed below on a scale of 0-5.

5 = Excellent The presenters have excelled and have exceeded expectations. *Returns 100% of the points in this category.*

4 = Good Good/very good quality, all expectations have been met. *Returns 87.5% of points in category.*

3 = Fair Most expectations fulfilled, but some slight improvements may be needed with respect to quality, clarity, or organization. *Returns 75.0% of points in category.*

1-2 = Poor Expectations not met in this area. Significant improvement is needed. *Returns 50.0%(1) or 62.5%(2) of points in category.*

0 = Missing This section is missing from the presentation. *Returns 0% of points in category.*

The scores you submit will later be converted into points. 20 points are possible for the presentation part of the lab project. 10 of those points will be from content standard, 5 from ability to create a quality product, and 5 from effective oral communication. The possible point values for each item are listed below.

I. Content Standard (10 points total)

A) Research topic or question (5%): Clearly stated, is appropriate in scope for the number of group members.

B) Introduction (15%): Contains relevant background and justification for doing the project; relevant material from class or the book is introduced which will be explored by the project. Hypothesis is stated here.

C) Summary of Procedure (10%): Briefly stated, clearly explains what was done and the assumptions made for those steps. Explains any controls or standards used.

D) Significant Results (15%): Results are well-organized and clearly displayed in graphs (and/or tables if graphs are not appropriate for the data collected). Data has correct significant figures and units.

E) Discussion of findings: Interpretation of the results is mentioned here.

1) Chemical Explanation (25%): The results are related to the chemistry topic discussed in the introduction. This chemical explanation should show an understanding of how chemical reactions, systems, processes, etc. explain the experimental observations.

2) Fulfillment of Expectations and Application (15%): Any unexpected or surprising results are described as well as why they may have occurred. An explanation is given for whether or not the hypothesis was supported and why. The results are applied to everyday life or possible future work.

3) Uncertainty (10%): Possible sources of error are reasonable and suggestions for improvement are given. The relative successfulness of the project is described as well as the confidence that the researchers have with the data.

F) References (5%): References are cited completely and consistently. References for visuals such as photos and diagrams from the Internet are also cited. *Failure to cite references or plagiarism may result in a zero on the entire lab project.*

II. Ability to Create a Quality Product (5 points total)

A) Overall organization (40%): The presentation was organized, easy to follow and understand, information is clear and concise, and the presentation is professionally presented.

B) Chemistry (40%): The presentation contains correct formulas and structures of molecules. Equations are correctly balanced. Tables and graphs are of appropriate size with proper headings, labels and units.

C) Use of visuals (20%): Visuals such as diagrams, charts, tables, etc. are used appropriately. Visuals are clearly labeled.

III. Effective Oral Communication (5 points total)

A) Student comprehension (50%): The students show an in-depth understanding of the material, are able to explain all of the data in the presentation, are able to thoughtfully answer questions, and do not over-rely on notes.

B) Delivery (50%): All group members make an appropriate contribution to the presentation. The students are able to explain the topic in an understandable manner, are enthusiastic about the topic, make eye contact with the audience, and use appropriate volume and rate of speech.