Chemistry 213
Environmental Presentations

Objectives

Group PowerPoint presentation on a topic related to Chemistry and the Environment (Chapter 18, Brown and LeMay).

Steps to a successful group presentation:

1. Brainstorm about the topics within the assigned chapter. Keep in mind that you have to be able to explain the "big picture" behind the real world connection within the limits of this one presentation. You will also have to relate your topic to the chemistry.

2. Research your topic (infoseek, current contents, other on-line databases through the library, books, articles, web, encyclopedias, dictionaries).

3. Decide how you want to present your topic.

4. Crucial parts to your presentation
   - Creativity will be rewarded by your peers and your instructor
   - All of the group members must contribute during the presentation
   - Good presentations use color and large readable fonts
   - Good presentations use pictures and diagrams with descriptor words
   - Short lists and brief phrases are better than complete sentences
   - Good presentations typically have a relevant, eye-catching title.
   - You must present the chemistry behind the specific topic that you choose to present
     - Explain chemistry topic in an interesting, understandable, and organized fashion at the appropriate level for the class

5. Keep in mind:
   - Introduction and summary statements can be helpful at the beginning and end of the presentation. Remember to keep them short and concise.
   - Provide all references used to develop presentation (DO NOT PLAGERIZE). These should be the last slide of the presentation.
     - WWW: Provide main URL and author (make sure that it works when you are not in the site)
• Journal Articles: Black, J. E.; Smo, M. A. Journal Title 1997, volume #, p 1679-1689. Article Title: "A Lot of Chemistry Stuff"

- It should take you about 5-10 minutes to present your PowerPoint show. The show should consist of 5 to 8 slides.

Evaluation of Presentation:

• On the day of the presentations, you will present your presentation to the laboratory section. Each presentation should take about 5-10 minutes with all group members speaking during the presentation.
  o Your presentation will be evaluated on the criterion listed in step 4 by the instructor.

Environmental Topic Choices

1. The Antarctic ozone hole – when, how, why?
2. Photochemical smog – sources and effects.
3. Acid rain – What are the effects of acid rain and how is it formed?
5. Mercury contamination and water quality – should we eat the fish?
6. Atrazine – What is it and should we be concerned?
7. Endocrine Disruptors in our waterways
8. Radon – sources, effects, and remediation.
9. Nuclear Energy
# Ratings of Group Presentations

**Rating:** Very Good (10), Good (8), Ordinary (6), Marginal (4), or Deficient (2)

**Topic:** ______________________________________

**Group Evaluated:** _______________________

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<tr>
<th>Group Presentation Area</th>
<th>Comments</th>
<th>Presentation Area Grade</th>
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| **Introduction:**                                | 1) The team did a very good, good, ordinary, marginal, or deficient job getting my attention.  
2) I goals/purpose were stated very good, good, ordinary, marginal, or deficient.                                                      | 10 8 6 4 2               |
| Attention grabbing?                             |                                                                                                                                                                                                     |                          |
| Goals/purpose stated?                            |                                                                                                                                                                                                     |                          |
| **Content:**                                     | 1) The content was creatively presented in a very good, good, ordinary, marginal, or deficient fashion.  
2) The presentation was very well, well, ordinarily, marginally, or deficiently organized and smooth, including when different group members presented.  
3) The chemistry was clearly explained, and at the appropriate level (very good, good, ordinary, marginal, or deficient) | 10 8 6 4 2               |
| Creative?                                       |                                                                                                                                                                                                     |                          |
| Chemistry clearly explained?                    |                                                                                                                                                                                                     |                          |
| Scientific level appropriate?                   |                                                                                                                                                                                                     |                          |
| Organized?                                      |                                                                                                                                                                                                     |                          |
| Smooth flow?                                    |                                                                                                                                                                                                     |                          |
| **Team Attributes**                             | 1) All (10), most (6), or few (2) of the group members presented information.  
2) The group showed very good, good, ordinary, marginal, or deficient energy and had very good, good, ordinary, marginal, or deficient eye contact with the audience. | 10 8 6 4 2               |
| Eye contact?                                    |                                                                                                                                                                                                     |                          |
| Energy?                                         |                                                                                                                                                                                                     |                          |
| Full participation?                             |                                                                                                                                                                                                     |                          |
| **Illustration (Pictures and/or demonstrations):** | 1) The illustrations were neat and organized. (very good, good, ordinary, marginal, or deficient)  
2) The illustrations were eye pleasing and creative. (very good, good, ordinary, marginal, or deficient)  
3) The illustrations added to the understanding of the topic. (very good, good, ordinary, marginal, or deficient) | 10 8 6 4 2               |
| Creative and eye pleasing?                      |                                                                                                                                                                                                     |                          |
| Useful?                                         |                                                                                                                                                                                                     |                          |
| Neat?                                           |                                                                                                                                                                                                     |                          |
| Organized?                                      |                                                                                                                                                                                                     |                          |
| **Conclusion:**                                  | 1) The summary of information was very good, good, ordinary, marginal, or deficient.  
2) The references were very good, good, ordinary, marginal, or deficient.                                                             | 10 8 6 4 2               |
| Summarized information?                         |                                                                                                                                                                                                     |                          |
| Provided references?                            |                                                                                                                                                                                                     |                          |
| **Overall Quality of Presentation**             | 1) The overall quality of the presentation was very good, good, ordinary, marginal, or deficient.                                                                                                 | 10 8 6 4 2               |