

Name _____

Date / wk _____

CHEM 51 PRESENTATION PROJECT

This is a group project, two students per group.

This project will involve

1. Scientific literature search training for organic and biochemistry related health topics.
2. Writing a 1 page outline of your presentation that includes the topic, 3 literature sources (2 scientific journals and one internet) and an outline due the 4th week of class. Your topic must be approved by me before you go forward with it.
3. Cite references completely using the following format:
Scientific journal reference:
Author(s), Title of article, Journal Title, volume (issue), pages (year)
Example:
Peter Mastrangelo, David Westaway, Biology of the Prion Gene Complex, Biochemistry and Cell Biology, 79.5, 613-628 (2001).
Internet reference:
Author(s), Title of article(year), Name of Website, Web Address.
Example:
Prion Diseases (11 September 2007), MicrobiologyBytes: Latest updates. 1-13,
<http://www.microbiologybytes.com/virology/prions.html>
4. A 10 min PowerPoint presentation (10 slides) during lab in the 17th week of class.
5. POSSIBLE SUBJECTS:
 - a. Prions: what are they, how are they unhealthy?
 - b. What are endogenous antioxidants? What are their function?
 - c. Why are foods that contain high levels of antioxidants considered healthy?
 - d. What are telomeres?
 - e. What are estrogenic phytochemicals? Are they unhealthy? Where do they occur?
 - f. What are flavinoids and why are they healthy? Where do they occur?
 - g. What are endocrine disrupting chemicals, where do they occur, how are they hazardous?
 - h. What are some health applications of nanomaterials?
 - i. What is the chemical make-up of stomach lining that makes it resistant to acid?
 - j. What is alcohol addiction and alcohol metabolism?
 - k. What is photodynamic therapy for cancer?
 - l. Phthalates. What are they? Where do they occur? Why are they unhealthy?
 - m. Diabetes in a nutshell (you only have 10 mins).
 - n. Genetic diseases (pick one)
 - o. The chemical/biochemical basis for chemical dependencies.
 - p. Pheromones.
 - q. Endorphins.
 - r. *Any health or biologically related topic that has an organic or biochemistry basis.*

Include as much chemistry (chemical structures and chemical reactions) or biochemistry as possible.
Part of your grade in this depends on how much chemistry you include.