

## Mrs. Downey's Chemistry Extra Credit Options

- Each student is only permitted to complete one extra credit assignment.
- Your extra credit assignment will increase your grade by 3% of the course points. (For example, if the total points available in your course is 1000 points, than you will receive up to 30 points for your extra credit.)
- Extra credits must be received at least 3 days before your official course end date.
- If you have any other ideas for extra credit that you are excited to try, please describe your idea to me! Maybe you can try it!

**Essay:** Write a 6-10 paragraph biography of *one* of the important figures listed below. Do not plagiarize and be sure to use proper grammar and spelling. Cite at least 2 sources.

Niels Bohr  
Marie Curie  
John Dalton  
Michael Faraday  
Enrico Fermi

Antoine Lavoisier  
Linus Pauling  
Dmitrii Mendeleev  
Max Planck

**Demonstration:** Choose one of these demonstrations to perform at home. As evidence of completion, you will submit at least 3 pictures of yourself performing the lab (or a YouTube video link if you prefer.) As a follow up, you must write a brief report describing 1) your procedure 2) what you observed and 3) the scientific principle behind your result. Make sure you use proper spelling and grammar.

- Candy Chromatography <http://scifun.chem.wisc.edu/homeexpts/candy.htm>
- Soft Water and Suds <http://scifun.chem.wisc.edu/homeexpts/SOFTWATR.html>
- Layered Liquids <http://scifun.chem.wisc.edu/homeexpts/layeredliquids.htm>
- Bending Water <http://scifun.chem.wisc.edu/homeexpts/BENDWATER.html>
- Egg in a Bottle <http://scifun.chem.wisc.edu/homeexpts/EgginBottle.htm>

**Poster:** Create a poster designed to teach the viewer about *the chemistry* behind one of the following topics. Your poster should be neat, organized, accurate and creative. It must adequately demonstrate your understanding of the content. You will submit your poster by taking a picture of it. (Make sure the picture is a clear and readable jpg or gif.)

*The Chemistry of ...* The Greenhouse Effect

*The Chemistry of ...* Electricity

*The Chemistry of ...* Photosynthesis

*The Chemistry of ...* pH and gardening

*The Chemistry of ...* Basic Nutrition

*The Chemistry of ...* Photography

*The Chemistry of ...* The Phase Changes of Water

*The Chemistry of ...* Fireworks

*The Chemistry of ...* Haircoloring

*The Chemistry of ...* Fall Colors