**Extra Credit Project Ideas**

1. Origami Earth Model

<http://oceanservice.noaa.gov/education/for_fun/EarthOrigami.pdf>

Make a larger version with a base, describing the different parts of the earth.

Ex: Hydrosphere, Atmosphere, Geosphere, Biosphere

1. 3-D Topographic Map Model

<http://www.ehow.com/how_5198489_make-model-topographic-map.html>

Thick posterboard can be used as a substitute.

1. Ball and Stick Silica Tetrahedron Molecule Model

<http://www.jameshedberg.com/scienceGraphics.php?sort=phy&id=SiO4>

Painted Styrofoam balls and pipe cleaners, dowel rods can be used as a substitute.

1. Astrolabe

<http://cms.qut.edu.au/__data/assets/pdf_file/0016/24127/create-your-own-astrolabe-student-worksheet.pdf>

or

<http://cse.ssl.berkeley.edu/AtHomeAstronomy/activity_07.html>

1. Rock Cycle Poster

Examples: <http://www.flickr.com/photos/jsteubeillustrator/3821782768/sizes/z/in/photostream/>

or

<http://staff.slcschools.org/jsnow/Labs/8Labs/RockCycleLab/RockCycle.html>

1. Recycling Poster

Examples:

<http://www.brainpop.co.uk/blog/wp-content/uploads/2010/04/Poster-Reboot-A3.pdf>

or

<http://visualizedata.wordpress.com/2011/04/04/project-1-redesigning-the-nyc-recycling-poster/>

1. Soil Profile Poster

Examples:

<http://www.princetonsoilinstitute.com/special-topics/arkose-rocks/soils/generalized-soil-profile.html>

or

<http://www.exploringnature.org/graphics/ecology/soils.pdf>

**Grading Guidelines**

Project is due by **Thursday 1/2/14**.

Drop it off in my office (Room 358) or leave it on my desk if I am not there.

Neatly write your name and science class code on the back of your project.

Project will count as 1-5 points towards your total grade point average.

Originality **(1 point)** – Not plagiarized in any way, except models.

Design **(1 point)** – Project is correctly organized and labeled with descriptions.

Scientific Accuracy **(1 point)** – Proper use of scientific terms/ideas discussed in class

Neatness **(1 point)** – Handwriting, Captions, Labels are clearly written and/or typed

Creativity **(1 point)** – Use of colors, and other visual aids, like glitter, markers or clay.

\*\*\*Note: These guidelines are flexible\*\*\*

Examples are intended as a guideline and are in no way a limiting factor in your designs.

You can search the internet for additional ideas and/or examples.

To receive a perfect score (5 points), the model or poster should be of the highest quality.

Projects with the highest grade will be displayed in the classroom or in the science wing hallway display cases.

Most materials can be purchased at Staples, Michael’s or any Art supply store.

You may do or create your own project; please email me a brief summary before you begin.

You may also email me with any questions regarding your project.

[bschmer@schools.nyc.gov](mailto:bschmer@schools.nyc.gov)

Good luck and have fun constructing and creating your project !!!