**Two mini research projects due Monday May 21st at the start of class**

Both projects are due on Monday and are individual projects. Scoring will be based on accuracy of information, addressing all information and neatness.

**Tides**

**Project #1**

**Project #1**: Using the iPads, you will look up the difference between a neap tide and a spring tide. Create a project that incorporates the moon phases and the type of tide that is created by that moon phase. You must describe **WHY** a neap tide or spring tide happens. A drawing of both types of tides (tidal bulge around the earth and the position of the moon) is a requirement to your project! Projects must also include why knowing about tides are important – look into reasons that include ecology, boats, commercial fishing, travel, and alternative energy. Be specific on your details. Projects are due on Friday and can be anything from a comic strip, a children’s book, a poster, a brochure or other creative idea. Use color and be neat for full credit. You must cite your sources for credit. (20 points)

**Extra credit –** Describe some type of cultural event that relates to tides or a historical event that was planned using a specific phase of the moon that impacted tides. You must cite your sources for credit. (5 points)

**Eclipses**

**Project #2**

**Project #2:** Create a mini poster using 8 ½” x 11” copy paper to illustrate solar and lunar eclipses. Make sure to show the positions of the Sun-Earth-Moon for each type of eclipse. Label the Sun, Earth and Moon as well as the penumbra and umbra in your project. Lastly, research when the next total solar eclipse and the next total lunar eclipe will occur and add this to your project. Use color and be neat for full credit. You must cite your sources for credit. (20 points)

**Extra credit –** Describe some type of cultural event that relates to eclipses or a historical event that takes in account eclipses. You must cite your sources for credit. (5 points)