

Name: _____

Date: _____

Period: _____

Astronomy Performance Improvement

Based on the CSA – Astronomy Assessment, you may need to improve your grade. For each area in which you did not score an MS complete the following assignment. You may stay afterschool for extra help to complete the assessment. Poster, Graph, and Writing Rubrics can all be found at my website.

GLE.8.3.2 – Day vs. Year

Create a graph showing how the length of a year on our planets (Independent Variable) is related to the length of the planet's year (Dependant Variable). Describe in a well-structured paragraph the difference between day/night cycles and yearly cycles. Be sure to include a definition of both day & year. Provide a Works Cited Page with 3 valid sources. Refer to the graphing rubric on my web page.

GLE.8.3.3 or 8.3.5 – Seasons

Create a poster of your own artwork showing the relationship between earth & sun on the first day of each season. Include the official names of these 1st days, the appropriate lines of latitude, tilt of the axis, north & south poles, and location of the sun's direct rays striking the earth. Describe in a well-structure paragraph how the tilt of the earth affects the length of daylight during the seasons. Provide a Works Cited Page with 3 valid sources. Refer to the poster rubric on my web page.

GLE 8.3.4 – Planets

Create a graph showing how the distance of a planet from the sun (in millions of miles) affects the length of the planet's year. Describe in a well-structured paragraph the relationship between the distance and period of revolution. Be sure to include a description of Keplar's Laws of Planetary Motion. Provide a Works Cited Page with 3 valid sources. Refer to the graphing rubric on my web page.

GLE 8.3.6 – Moon Phases

Create a poster of your own artwork showing how the moon appears during the month of November 2015. Include in your diagram the 8 major moon phases & the earth, moon, sun relationship. Describe in a well-structure paragraph how the relationship between the earth, moon, sun affects the appearance of the moon during the phases. Provide a Works Cited Page with 3 valid sources. Refer to the poster rubric on my web page.

GLE 8.3.7 – Eclipses

Create a poster showing both lunar and solar eclipses. Be sure to include the moon, earth, sun relationship moon phases, and umbra & penumbras. Include a table showing the types of eclipses and there dates for all eclipses visible in Windsor Locks for the years 2010 t0 2020. Describe in a well-structured paragraph why eclipses occur at different moon phases and why they do not occur at all of these phases. Provide a Works Cited Page with 3 valid sources. Refer to the poster rubric on my web page.

GLE .3.8 – Tides

Create a graph showing the differences between the highest high tide and lowest low tide for each day during the month of November 2015 at Old Saybrook Ct. Include the 4 major moon phases which cause Spring & Neap Tides. Describe in a well-structured paragraph the connection between the moon and the daily high / low tide cycle as well as how certain phases of the moon result in Spring and Neap Tides. Provide a Works Cited Page with 3 valid sources. Refer to the graph rubric on my web page.