Physical Science Sun - Earth – Moon Poster Date Period
KJHS Name

This project is worth 30 points. Attach this rubric to the poster when you turn it in.

- On a piece of 11X17 paper,
  - draw the Earth, the Sun, and the Moon as they are positioned during a **Lunar Eclipse.** It doesn't need to be drawn to scale.
  - You need to create 5 information boxes and place them by the objects on your poster. (the Neap and Spring tide boxes can be placed anywhere)
  - **Each information box must include the facts from the table below.**

Poster Part	**Requirement**	**Points/Pts Possible**
Main drawing	**Drawing of Earth Moon Sun during a Lunar Eclipse**. Must be in a line, perfect circles. You must include and label the **Umbra** and **Penumbra** in your drawing. Use your textbook to help you. Pg 483	/5
Neatness	Color, spelling, contrast, creativity, **detail**	/4
Phase?	By the moon label what PHASE it is in.	/1
Spring or neap tide	Label under Earth if this alignment causes a **Spring or Neap** tide (Draw the tide on the Earth) pg 485	/2
Distances **(miles)**	Write the distance for **Earth-to-Sun** and **Earth-to-Moon** on the space between the objects in your main drawing.	/2
Box with Earth Facts	Choose 3 of: Diameter, Composition, Temperature Range, Rate of Rotation, Rate of Revolution	/3
Box with Moon Facts	Choose 3 of: Diameter, Terrain, Temperature Range, Gravity, Rate of Rotation, Rate of Revolution	/3
Box with Sun Facts	Choose 3 of: Volume, Composition, Age (pg 546), Color, Rate of Rotation, Rate of Revolution	/3
Box with Neap Tides Facts	Do all: ★Draw and label the 2 phases of the moon when neap tides occur. ★Draw an example of how the Earth Moon Sun are aligned during a neap tide. ★Exaggerate the level of water to represent where the tides would be on Earth	/4
Box with Spring Tides Facts	Do all: ★Draw and label the 2 phases of the moon when Spring tides occur. ★Is the **alignment** of earth moon sun in a **straight line or a right angle?**	/3
	TOTAL GRADE	/30

Hint: when including facts about the Earth/Moon/Sun, it need to make an info box