Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_

**SCIENCE STANDARD PERFORMANCE RUBRIC**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Big Idea: EARTH IN SPACE AND TIME** | | | **Assessed at Complexity Level:**  **3 – STRATEGIC THINKING AND COMPLEX REASONING** | | | |
| **Unit: Sun, Earth, and Moon Relationships** | | |
| **SC.8.E.5.9 – Explain the impact of objects in space on each other including:**   * **the Sun on the Earth, including seasons and gravitational attraction.** * **the Moon on the Earth, including phases, tides, and eclipses, and the relative position of each body.** | | | | | | |
| **Annually Assessed** | | | | | | |
| **MASTERY** | | **Performance Indicators** | | **BEFORE INST.** | **DURING INST.** | **AFTER INST.** |
| **4** | **EXCEEDING**  **the Standard** | I can analyze how astronomical bodies in the Solar System affect each other.   * Anticipate seasonal changes, tidal patterns, and eclipses given the relative positions of the Sun, Earth, and Moon | |  |  |  |
| I can relate the effect of astronomical bodies on each other including the effect of the Sun and the Moon on Earth.   * Relate the positioning of the Sun, Earth, and Moon to the passage of time (including years, months, weeks, and days), seasonal changes, tides, and eclipses | |  |  |  |
| **3** | **MASTERY** | **I can recall the effect of astronomical bodies on each other, including the effect of the Sun and the Moon on Earth.**   * Recall that the positioning of the Earth in its orbit around the Sun affects the seasons we experience (differences in average temperatures) * Recall that the relative positions of the Sun, Earth, and Moon influence moon phases, tides, and eclipses * Explain how gravitational attraction influences the orbit of the Earth around the Sun and the Moon around the Earth | |  |  |  |
| **2** | **PARTIAL MASTERY** | I can recognize some of the relationships between the Sun, Moon, and Earth.   * Identify factors that influence gravitational attraction * Describe the orbit of the Earth around the Sun and the Moon around the Earth * Describe the illumination of the Earth and Moon by the Sun | |  |  |  |
| **1** | **BUILDING MASTERY** | With help, I can demonstrate partial mastery of some of the simpler tasks listed above, but I still make mistakes. | |  |  |  |
| **0** | **NOVICE** | I currently have no knowledge or mastery of the skills and tasks listed above, but I will make an effort to learn them. | |  |  |  |