**‘Round and ‘Round They Go!**

**Benchmarks: SC.8.E.5.9** Explain the impact of objects in space on each other including: the Sun on the Earth including the seasons and gravitational attraction; and the Moon on the Earth, including phases, tides, and eclipses, and the relative positions of each body.

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| **4** | I am able to **design** a model on how the positions of the Earth, Moon, and Sun causes moon phases, tides, eclipses and seasons. | |
| **3** | The student will be able to explain the impact of objects in space on each other including:  1. the sun on the earth including seasons and gravitational attraction and  2. the moon on the earth including phases, tides, and eclipses, and the relative position of each body. | |
| **2** | I can **define:**  \_\_\_ tide  \_\_\_ neap tide  \_\_\_ spring tide  \_\_\_ eclipse (solar/lunar)  \_\_\_ equinox  \_\_\_ solstice | \_\_\_ I can **explain** and **illustrate** the interaction and relative position of the Earth, Moon, and Sun that causes:   * Changing tides \_\_\_ * Lunar and solar eclipses\_\_\_ * Changing seasons \_\_\_ |
|  | I can **define**:  \_\_\_ Moon  \_\_\_ waxing  \_\_\_ waning  \_\_\_ lunar phases | \_\_\_ I can **explain** and **illustrate** the interaction and relative position of the Earth, Moon, and Sun that causes the phases of the Moon.  \_\_\_ I can **explain** the impact the phases of the moon have on the tides. |
|  | I can **define:**  \_\_\_ Sun  \_\_\_ Earth  \_\_\_ Gravitational attraction  \_\_\_ rotation  \_\_\_ revolution  \_\_\_ tilt  \_\_\_ axis | \_\_\_ I can **explain** the gravitational attraction of the Earth and the Sun and the Earth and the Moon. |
| **1** | With help, students are able to have partial success with 2.0 and/or 3.0 content. | |