**‘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. |