

School to Home**LESSON 3*****Eclipses and Tides***

Directions: Use your textbook to answer each question.

- 1. The umbra is the darkest part of a shadow. The penumbra is the lighter part around the edges of a shadow.**

What is the difference between being in the umbra and penumbra of the shadow the Moon casts on Earth during a solar eclipse?

- 2. A solar eclipse occurs when the Moon's shadow passes over Earth. A lunar eclipse occurs when the Moon moves into Earth's shadow.**

Why are solar eclipses visible from a much smaller part of Earth than lunar eclipses?

- 3. During neap tides, high tides are lower and low tides are higher.**

What causes the Moon to have less of an impact on tides at neap tides?

- 4. Total lunar eclipses occur only during a full moon. Total solar eclipses occur only during a new moon.**

Why do total eclipses not occur during each full moon and new moon?
