Name:

**Lunar Eclipse**

**Visit this website: Lunar Eclipses for Beginners-http://www.MrEclipse.com/special/LEprimer.html**

**Answer the following questions using complete sentences.**

1. **What is the only lunar phase in which a lunar eclipse can occur?**
2. **Sketch the lunar eclipse geometry below. Make sure to label all parts.**
3. **What are the three different kinds of lunar eclipses? Describe each briefly.**
4. **Why don’t we have a total lunar eclipse every full moon?**
5. **Why does the Moon appear to change color during an eclipse?**

**Solar Eclipse**

**Visit this website:** [**http://www.MrEclipse.com/special/SEprimer.html**](http://www.MrEclipse.com/special/SEprimer.html)

1. When is the only time a solar eclipse can occur?
2. Define the following words:
3. Penumbra:
4. Umbra:
5. What are the only ways you should look at a solar eclipse?
6. Sketch a diagram of a total solar eclipse. Make sure to label all parts.
7. How long do total solar eclipses last?
8. How long do annular solar eclipses last?
9. How is an annular eclipse different from a total eclipse?