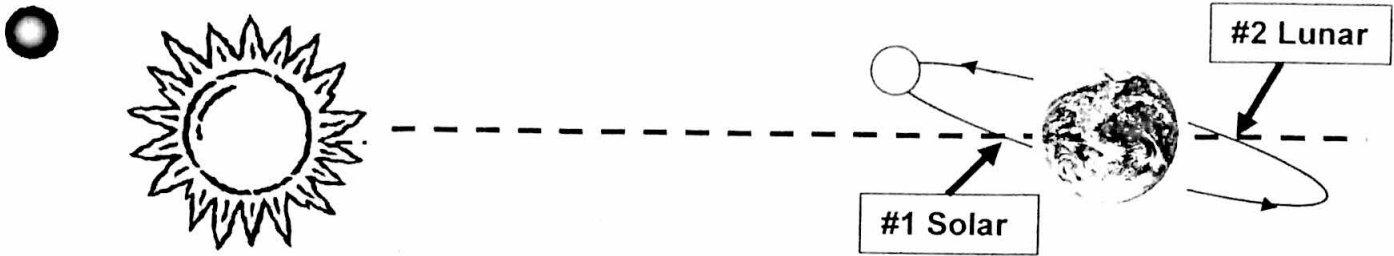
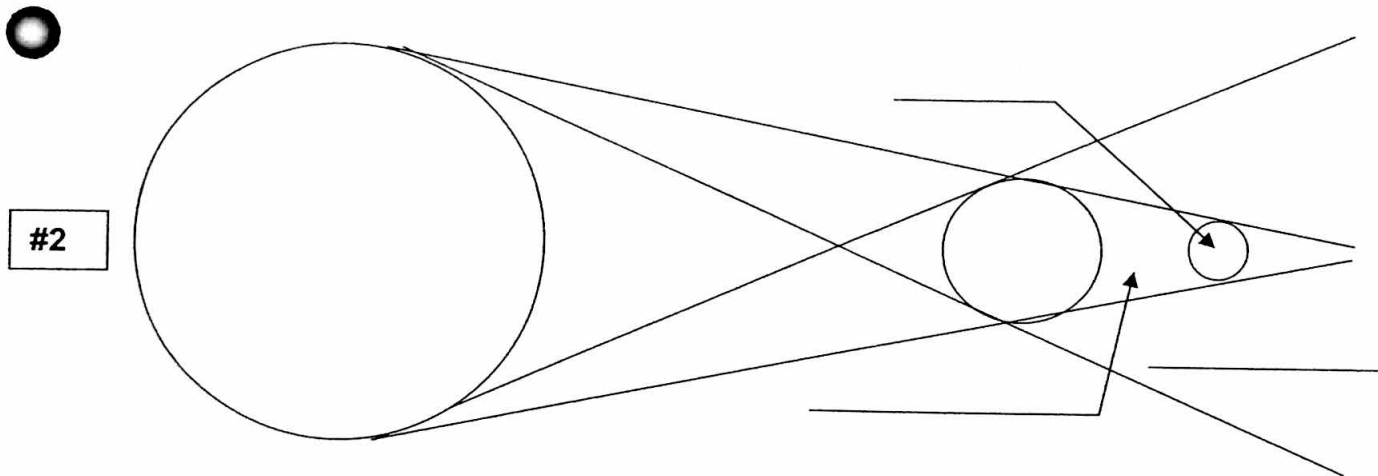
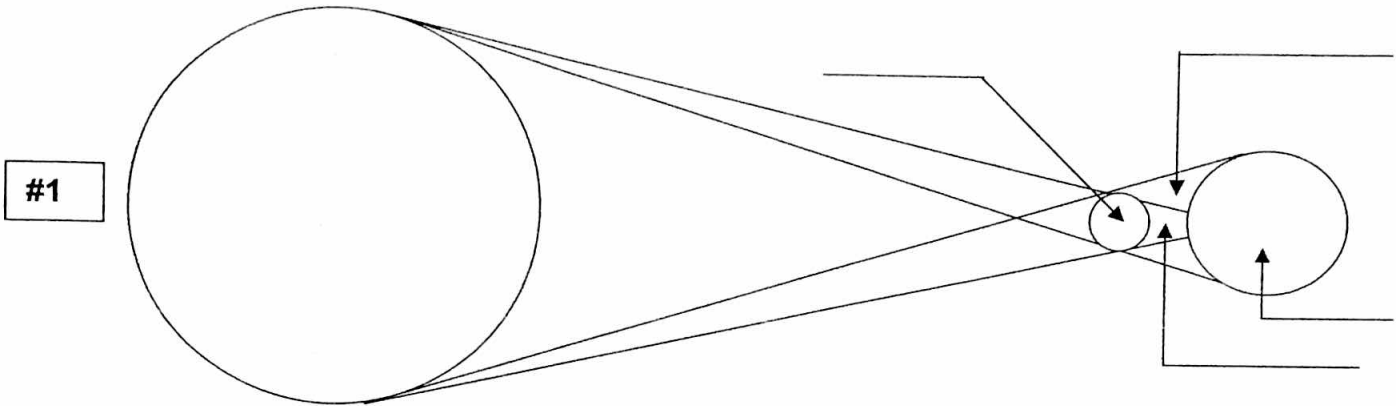


Eclipses Activity Handout



Directions: Using the word bank fill in the correct words on the lines and then color according to the key.



Earth – [Color Blue] The planet in which we live.

Sun – [Color Yellow] The star of our solar system

Moon - [Color White] Our Earth's satellite

Penumbra - [Shade Gray] The area in which the shadow of an object is partial, and the area in which a partial solar eclipse is experienced.

Umbra - [Shade Black] The area in which the shadow of an object is total, and the area in which a total solar eclipse is experienced.

1. What is the difference between a partial and total solar eclipse?

2. Are total eclipses visible from anywhere on Earth? Explain

3. How could you modify diagram #1, to show an annular eclipse?

4. Why don't we see solar and lunar eclipses every lunar cycle?

5. If the moon's orbital plane were 0° rather than 5° , how often would solar and lunar eclipses occur? Where would they be seen?