

Eclipses of All Kinds Worksheet

Observations

Draw a diagram that illustrates the position of the Sun, Moon and Earth for both a solar and lunar eclipse.

Lunar Eclipse Diagram

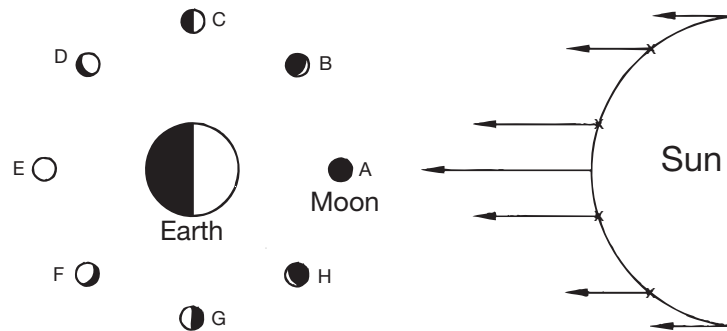


Solar Eclipse Diagram



Discussion Questions

1. What does the large ball, small ball and light source represent in the model?
2. How are the positions of the Moon, Sun and Earth different when comparing a lunar and solar eclipse?
3. Why is a solar eclipse only viewable in certain places on Earth?
4. Consider the phases of the Moon as shown in the diagram below.



- a. Why is a new Moon required for a solar eclipse to occur?
- b. Why is a full Moon required for a lunar eclipse to occur?

5. How can astronomers predict both solar and lunar eclipses centuries in advance?