

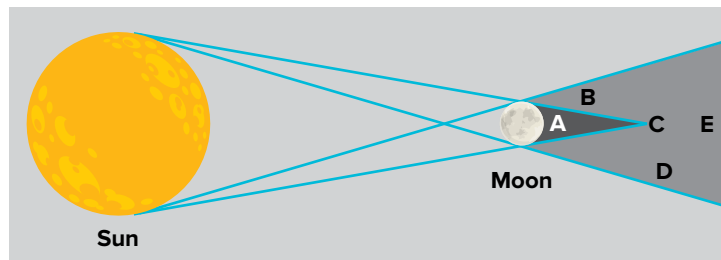
THE SUN-EARTH-MOON SYSTEM

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SEP Data Analysis Lab

How can you predict how a solar eclipse will look to an observer at various positions?

The diagram below shows the Moon eclipsing the Sun. The Sun will appear differently to observers located at Points A through E.



DATA AND OBSERVATIONS

Observe the points in relation to the position of the Moon's umbra and penumbra.

ANALYZE AND INTERPRET DATA

1. **Claim** Draw how the solar eclipse would appear to an observer at each labeled point.

2. **Evidence** Design a data table to display your drawings.

Name _____

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CONTINUED

3. Reasoning What type of solar eclipse is represented in each of your drawings? How do you know?
