

In Class Worksheet (Lunar Phase Simulator)

1. Sketch the shadows for Sun-Earth-Moon Geometry shown below. Then sketch the appearance of the moon as seen from the earth and notate the name of the phase.

Sun-Earth-Moon Geometry

Moon's Appearance

Name of Phase: _____

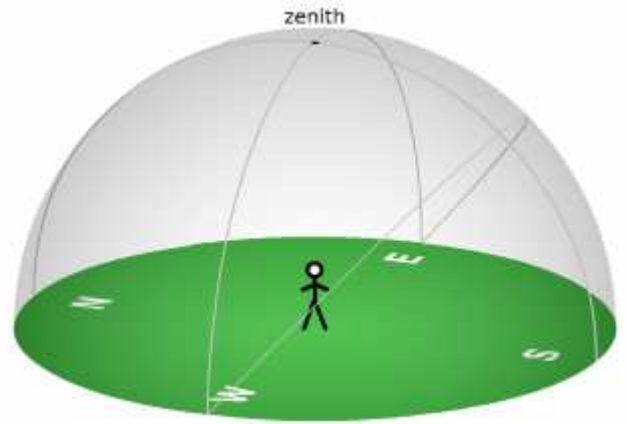
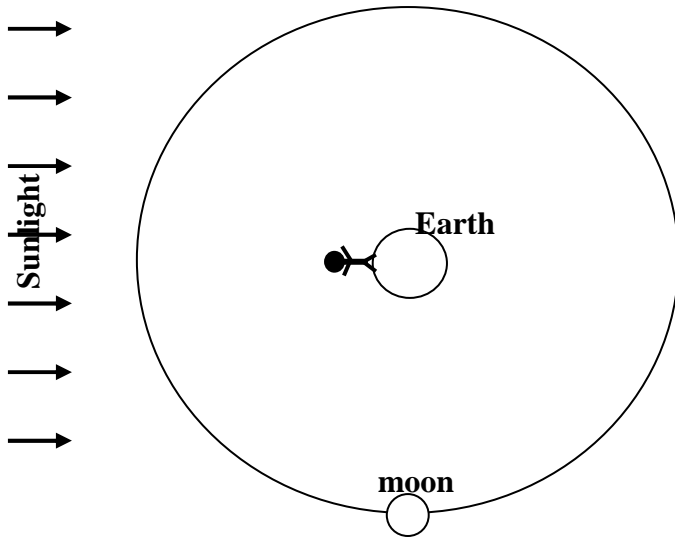
2. Sketch the appearance of the moon and notate the name of the phase for the new geometry below.

Name of Phase: _____

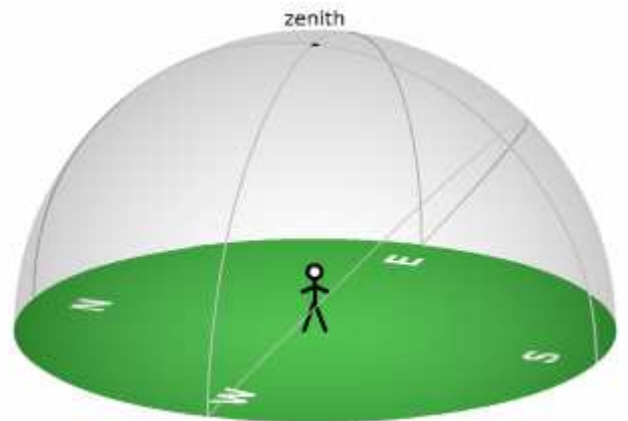
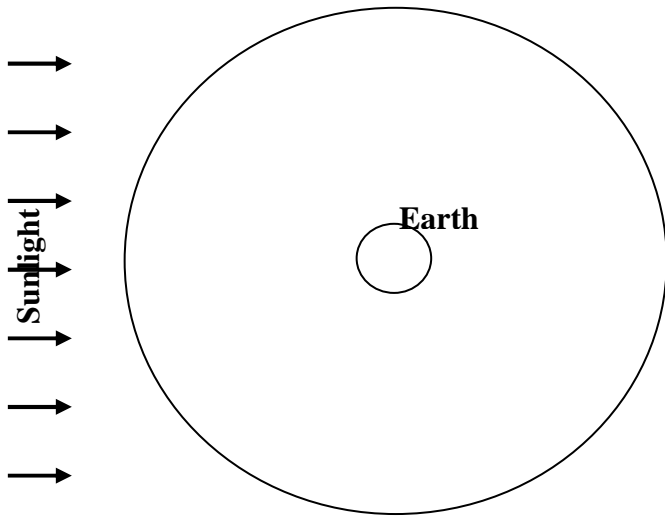
3. Complete both drawings for the position and appearance of the moon 3 days later than part #2.

Name of Phase: _____

4. Draw in the location of the sun and moon in the horizon diagram for the earth-moon geometry shown.



5. Draw locations of the moon and observer in the Earth-Moon Geometry diagram and the locations of the sun and moon in the horizon diagram 6 hours later than part #4.



6. Estimate the angle between the sun and moon in part #5.

Angle = _____