

Physically Looking at the Moon Phases Lesson Plan

1. Materials
 - Styrofoam balls of the sun, moon, and sun with dowels in each one
 - Flashlights or a lamp without a shade
2. Procedure
 - a.) Give each student a Styrofoam ball with a dowel in it.
 - b.) Turn on lamp or flashlights.
 - c.) Have the students stand with the ball toward the light.
 - d.) Have the rotate around slowly in a full circle until they are in the position they started out.
 - e.) Have the watch the shadow on the moon.
3. Assessment and Observations
 - a.) What are you representing?
 - b.) What is the ball representing?
 - c.) What is the ball moving around you representing?
 - d.) What does the ball look like as you are looking into the light?
 - e.) What does the ball look like as your back is to the light and you are looking at the ball?
 - f.) What happened to the light on the moon as you were turning from the time the light was in your eyes to the time your back was to the light?
 - g.) What happened to the light on the moon as you were turning from the time your back was to the light to the time the light was in your eyes?
 - h.) Draw pictures of what you see happening to the light on the ball at the different places the ball is around you.