

## Modeling Lunar Phases

- 1) Remove the globe of the Earth from the blue peg on the SEM board.
- 2) Put the Moon back at position #1 on the SEM board. Have the white side of the Moon again towards the side labeled Sun.
- 3) Group member look from the opposite side of the SEM board (looking from behind position #5 at the moon). Make sure your head is level with the moon, you will have to squat down to do this.
- 4) Observe how much of the Moon is lit up by the (Sun) at this angle. Shade in the outside circle on worksheet of position #1 how much of the Moon is illuminated (lit up). Make sure the worksheet's Sunlight side is the same side as your SEM board.
- 5) Move the Moon to position #2 on the SEM board and keep the white part of the moon facing the Sun.
- 6) Look from the opposite side of the SEM board (looking from behind position #6 at the moon). Make sure you are head is level with the moon.
- 7) Observe how much of the Moon is lit up by the (Sun) at this angle. Shade in the outside circle on worksheet of position #2 to show how much of the Moon is illuminated (lit up).
- 8) Continue this procedure for the remaining positions. Remember to always look from the opposite side of the SEM board and have the worksheet the same way the SEM board is positioned.
- 9) Put the Earth back on the center peg and return the SEM board and get the 2 large Styrofoam Moons.

