

# Phases of the Moon

Student Activity Sheet part 2

Solution

## Observe the phases of the moon.

1. Click on setup.
2. Go to Aerial view and rotate around Earth until you find the Observer agent (looks like Homer Simpson). Click on "agent eye" and you'll find yourself looking out of the observer's "eyes." You should see the moon.
3. Now when you click on Run to run the simulation for 1 day, your observer will always be looking at the moon. Although this is unrealistic, it's helpful for observing the different phases of the moon.
4. Note the monitor that tells you what day of the moon cycle it is. New moon = day 0.
5. Click on the "show shadows" button. Click on Forever and move the speed slider to the right (e.g., 2) and note the change in the "phase" of the moon (light and dark areas) as the moon moves around the Earth.
6. Draw and shade the moon as it appears from the Earth in the different positions shown below:  
(\*NOTE: Drawing is not to scale)

