

Astronomy 100, Fall 2006

Name:

Weekly assignment 2: Light, the Earth and the Moon

Due: October 10, 2006 at 11 a.m.

Distinguish:

1. Refraction from reflection

2. Photon from proton (they're both particles, but list physical properties that distinguish one from the other)

3. Light wavelength from light frequency

4. Semi-major axis of a planetary orbit from orbital period of a planet

5. Gibbous from crescent

6. Find a website that gives an accurate current moon phase. Write down the URL (e.g., <http://...etc.>). What makes you think that this website is accurate?

7. Sketch the Moon as best as you can. Determine the compass direction you are looking at the moon. Finally, give the date and time of the sketch.

8. Find a bright star in the early evening sky (this is best accomplished by being outside on a clear night at sunset and watching the stars becoming visible as the sky darkens). Give its approximate altitude and azimuth, and, using any reference available, its name.