

GEOS 170 Earth Science Today  
Sun and Moon Web Exercise

Go to <http://nineplanets.org/sol.html> and answer the following

1. What type of star is our sun and what does that mean?
2. What is the sun composed of, and how does it produce its energy?

Go to <http://www.spaceweather.com/> and answer the following

3. What are Solar Winds, and how do these winds affect us on Earth?
4. What is the difference between a Sun Spot and a Solar Flare?
5. How does the Earth retain its atmosphere?

Go to <http://www.youtube.com/watch?v=R2lP146KA5A>  
and view the animation.

6. Explain how this animation illustrates the seasonality we experience on the Earth's Northern Hemisphere?

Go to <http://nineplanets.org/luna.html> and answer the following

7. How far away from Earth is the Moon, and how does this compare with the distance from the Earth to the sun?
  
  
  
  
  
  
  
  
  
  
8. Even though the Moon is the second brightest object in the Sky, where does this light actually come from?
  
  
  
  
  
  
  
  
  
  
9. What does the gravitational influence of the moon cause on Earth?

Go to [http://www.moonconnection.com/moon\\_phases.phtml](http://www.moonconnection.com/moon_phases.phtml) and [http://www.moonconnection.com/moon\\_phases\\_calendar.phtml](http://www.moonconnection.com/moon_phases_calendar.phtml) and answer the following

10. What are the phases of the moon, and what is the major difference between the positions of the moon, Earth, and sun for a New Moon versus a Full Moon? Also, what is the current moon phase, and what will be happening to it over the next 7 days?