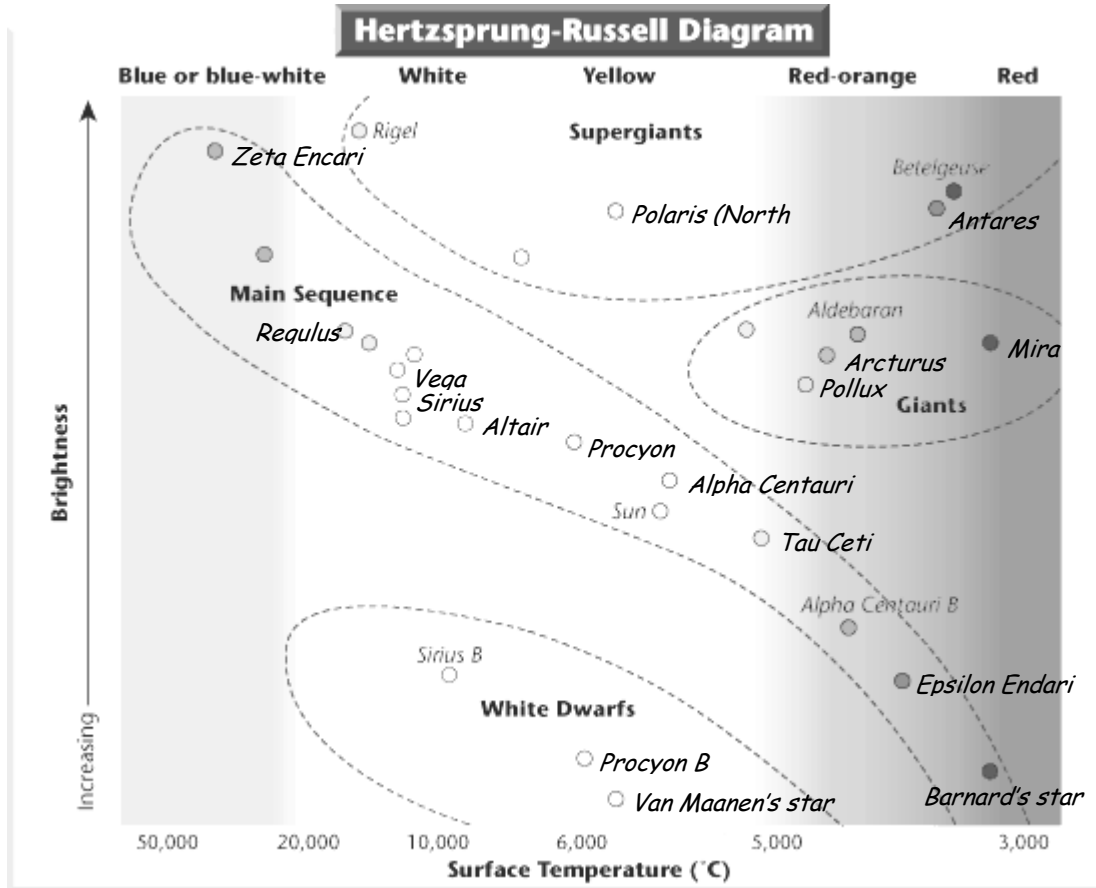


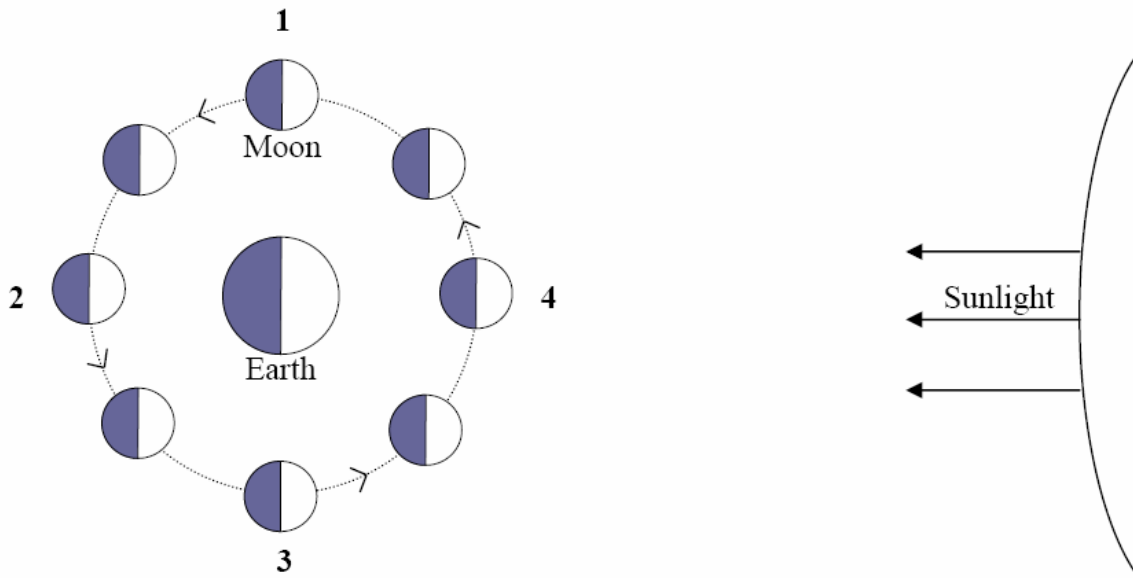
Unit 4: Space Studies
~ Review ~

Name _____
Science-8 Teacher _____
Period ___ Date _____

Write complete answers on YOUR OWN PAPER.



1. Looking at the HR Diagram above, what is the relationship between the surface temperature and brightness of a main sequence star?
2. Use the HR Diagram above to list the following stars in order of increasing magnitude: Pollux, Procyon B, Rigel, Sirius B, & The Sun.
3. List the following in the most logical order: galaxy, planet, solar system, & universe. Explain why you chose this order.
4. How does Doppler Shift support the Big Bang Theory?
5. What is a "light-year" and when should it be used? Should we use it to measure the distance to the sun?...why or why not?
6. What is a galaxy?
7. Describe comets and their flight paths.
8. Why are we "viewing the past" when we look at the stars? Do we see them as they exist today?
9. Compare mass and weight.



10. Where is the moon when we receive the most reflected light from the sun?
11. As viewed from the Earth, how does the light change on the moon's surface between positions 3 and 4?
12. Label the moon phases on the diagram above.
13. A student sees a scientist on TV stating that the world will end in 2012. What is the most important question the student should ask in order to critique the hypothesis?
14. The same student sees a commercial on TV for a new diet food that claims to increase muscle mass. Is the claim reliable? Why or why not?
15. What can be measured by each of the following pieces of equipment? barometer, graduated cylinder, spring scale, thermometer
16. Draw & label the sun, earth, moon relationship showing both a lunar and a solar eclipse. Also label the umbra and penumbra. (2 drawings)
17. Define the following: absolute magnitude, apparent magnitude, umbra, penumbra, spring tide, & neap tide.
18. What causes the changes of seasons on our planet?
19. What causes ocean tides?
20. Draw and label the phases of the moon in order.
21. About how many days are there between a new moon and a full moon?