



The Atmosphere - Review Questions

1. The gas which comprises most of the atmosphere is:
 - a. Oxygen
 - b. Carbon
 - c. Nitrogen
 - d. Helium

2. The top three gases in the atmosphere are
 - a. Nitrogen, Oxygen, and Carbon Dioxide
 - b. Nitrogen, Argon, and Oxygen
 - c. Oxygen, Neon, and Argon
 - d. Helium, Nitrogen, Carbon Dioxide

3. The _____ is the outermost layer of Earth's atmosphere.
 - a. Troposphere
 - b. Stratosphere
 - c. Exosphere
 - d. Thermosphere

4. The layer of the atmosphere where most of the world's weather occurs is:
 - a. Stratosphere
 - b. Troposphere
 - c. Hemisphere
 - d. Thermosphere

5. The boundary between the troposphere and stratosphere is called the:
 - a. Tropopause
 - b. Stratopause
 - c. Mesopause
 - d. Tempopause

6. The tropopause is highest at the north and south poles. (TRUE, FALSE)

7. It is _____ (easier/harder) to breathe on top of Mount Whitney (elevation 14,494 ft/4418 m) than at sea level because there is _____ (less/more) oxygen molecules at the summit.

8. Moist air weighs less than dry air. (TRUE, FALSE)
9. Air pressure is measured with
- a barometer.
 - an altimeter.
 - a wind vane.
 - an anemometer.
10. You notice on a barometer that air pressure has been decreasing rapidly. The type of weather that would normally be expected to occur would be:
- Fog
 - Drizzle
 - Clear skies
 - Thunderstorms
11. If you feel the heat in the handle of a cooking pot, that heat was transferred to the handle by:
- Radiation
 - Convection
 - Conduction
12. Heat travels though empty space by:
- Evaporation
 - Conduction
 - Convection
 - Radiation
13. A sunburn is caused by which method of heat transfer:
- Radiation
 - Convection
 - Conduction
14. Light colored objects absorb radiation _____ (faster/slower) and emit radiation _____ (faster/slower) than dark colored objects.
15. At night, temperatures will normally be higher under cloudy skies than under clear skies. (TRUE, FALSE)

16. The hydrologic cycle is:
- Evaporation, condensation, precipitation
 - Convection, conduction, condensation
 - Rain, sunshine, condensation
17. The process of water changing from a liquid to a gas is called _____.
- Condensation
 - the water cycle
 - Evaporation
 - Precipitation
18. The brief cloud that forms when you exhale on a cold winter day was formed because of:
- Evaporation
 - Condensation
 - Precipitation
 - Runoff
19. There is more water in the atmosphere than in glaciers & icecaps. (TRUE, FALSE)
20. One inch of rainfall over one square mile is how many gallons of water?
- 17,400
 - 174,000
 - 1,740,000
 - 17,400,000
21. The region of the atmosphere that reflects radio signals is the _____.
- Ozone
 - Tropopause
 - Stratosphere
 - Ionosphere