

Chapter 1 Review The Atmosphere

Name _____

1. Name the percent of each in the atmosphere:

Oxygen _____ Nitrogen _____ Trace Gasses _____
Water Vapor (p.17) _____ Carbon Dioxide _____

2. Matching

- a. pollutants _____ causes acid rain when coal is burned
- b. water vapor _____ protects the Earth from ultra violet radiation
- c. density _____ the amount of mass in a given volume
- d. smog _____ particles of carbon that enter the air when wood or coal is burned
- e. acid rain _____ a gas that varies between 0 and 5% in different places
- f. sulfur _____ harmful substances in air, soil, or water
- g. ozone _____ force per unit of area
- h. soot _____ the distance above sea level
- i. pressure _____ caused by burning of coal that contains a lot of sulfur
- j. altitude _____ fog and pollution combined
- k. photochemical smog _____ caused by how light reacts with smog

3. As your altitude increases, air pressure (increases or decreases.)

As your altitude decreases, air pressure (increases or decreases).

4. As your altitude increases, temperature generally (increases or decreases).

As your altitude decreases, temperature generally (increases or decreases).

5. As air pressure increases, the density of the air (increases or decreases).

As air pressure decreases, the density of air (increases or decreases).

6. Matching (some have more than one correct letter per line)

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|------------------------|--|
| _____ Troposphere (2) | a. contains ozone |
| _____ Mesosphere (2) | b. contains our weather |
| _____ Stratosphere (1) | c. meteoroids burn up here |
| _____ Ionosphere (2) | d. Northern Lights occur (Aurora Borealis) |
| _____ Thermosphere (2) | e. layer of the Thermosphere that reflects radio waves |
| _____ Exosphere (1) | f. warmest layer of the atmosphere |
| | g. this is where satellites orbit |
| | h. contains the Ionosphere and the Exosphere |
| | i. this is the middle layer |
| | j. we live in this layer |

7. What are three things needed to cause something to burn?

Which of the three is considered a gas?

8. Describe how an aneroid barometer and mercury barometer are different.

9. What two *units* do we use to measure atmospheric pressure?

10. True or False If the answer is false, fill in the correct answer.

- a. T or F Air quality has improved in the last 30 years.
- b. T or F The burning of fossil fuels is a leading contributor to pollution in the U.S.
- c. T or F Climate is the condition of Earth's atmosphere at a particular place and time.
- d. T or F Altitude is the height above sea level.
- e. T or F The factor that best describes the different layers of the atmosphere is temperature.