

Name _____ Date _____ Class _____

Air Pressure

Air Pressure (page: 509-514)

This section describes several properties of air, including density and air pressure. The section also explains how air pressure is measured and how it changes with altitude.

Properties of Air (pages 509-510)

1. Circle the letter of each sentence that is true about air.
 - a. Air has mass because it is composed of atoms and molecules.
 - b. Because air has mass, it has density and pressure.
 - c. The more molecules in a given volume of air, the greater its density.
 - d. The greater the density of air, the less pressure it exerts.

2. Complete the table

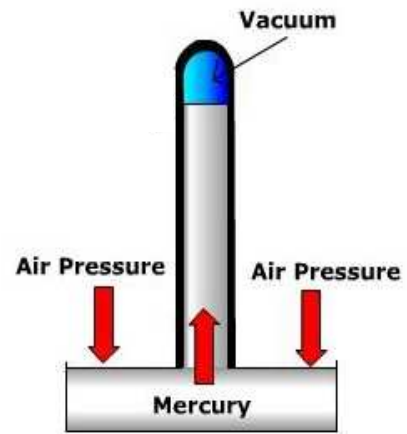
Properties of Air	
Property	Definition
	Amount of mass in a given volume of air.
	Weight of the air pushing down on an area.

3. Why doesn't air pressure crush your desk? _____

Measuring Air Pressure (pages 510-511)

4. Is the following sentence True or False?
Falling air pressure usually indicates that a storm is approaching. _____
5. An instrument that is used to measure changes in air pressure is called a(n) _____
6. What are the two types of barometers? _____

7. Draw a line on the glass tube to show where the level of mercury might be if the air pressure decreased.



8. Two different units to measure air pressure are _____ and _____

9. If the air pressure is 30 inches, how many millibars of air pressure are there? _____

Increasing Altitude (pages 512-514)

10. Another word for elevation or distance above sea level is _____

11. Is the following sentence True or False?

Air pressure increases as altitude increases. _____

12. Is the following sentence True or False?

As air pressure decreases, so does air density. _____

13. Why is air pressure greatest at sea level? _____

14. Is the following sentence True or False?

As altitude increases, so does air density. _____

15. Circle the letter of the sentence that explains why you would have more difficulty breathing at high altitudes than at sea level.

- a. Air pressure is higher at high altitudes.
- b. Density of the air is greater at high altitudes.
- c. The percentage of oxygen in the air is lower at high altitudes.
- d. the amount of oxygen in each breath is less at high altitudes.