Air Pressure – Can You Feel It?

- Name: ______ Date: _____ Period: ______
 LT: I can identify and summarize information given in a PowerPoint presentation to gain a better understanding of the concept of air pressure.
 <u>Directions</u>: Complete the following as you watch the presentation on air pressure.
 1. Air pressure is the measure of the ______ with which ______ on a surface.
 2. Air pressure is ______ at the surface of the Earth because there is more of ________.
 - 3. As you ______ through the atmosphere, air pressure ______.
 - 4. Draw a line on the graph showing the curve of air pressure vs. altitude.



- 5. Air pressure is dependent on ______. (Note: Density is the mass in a given volume. So the more molecules there are in a given space, the higher the density. Density is a measure of how many molecules are packed into a space.)
- 6. Air that is more dense will have a ______ because there are more air molecules in a given space to push down on you.
- 7. Air that is less dense will have a ______ because there are fewer air molecules to push down on you.
- 8. Draw molecules in the following boxes to differentiate between more dense air and less dense air.



Less Dense

- 9. Air pressure is effected by three (3) factors
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- 10. The impact of _______ on air pressure is that as you move _______ through the atmosphere, air pressure _______ because there are fewer air molecules above you to push _______, so the force of the air is ______.
 11. The impact of _______ or humidity on air pressure is that moist air is
 - _____ than dry air, and therefore moist air has a ______ air

pressure. This is true because a ______ has less mass than other

molecules that make up air. (Note: less mass in the same area means lower density.)

12. Draw the effect of more water in the air.



13. The impact of ______ on air pressure is that

is less dense than cold air. This means that warm air has a

_____ air pressure and cold air has a ______ air pressure.

Cold Air

14. Draw molecules in the following boxes to differentiate between the density of warm and cold air.



- 15. The piece of equipment used to measure air pressure is a ______
- 16. As the air pressure increases, the mercury in a barometer ______
- 17. Air pressure affects the weather. Air pressure in a weather system effects the amount of

_____ in the air. _____ air pressure usually results in stormy, cloudy,

overcast weather. ______ air pressure results in clear skies and no precipitation.