

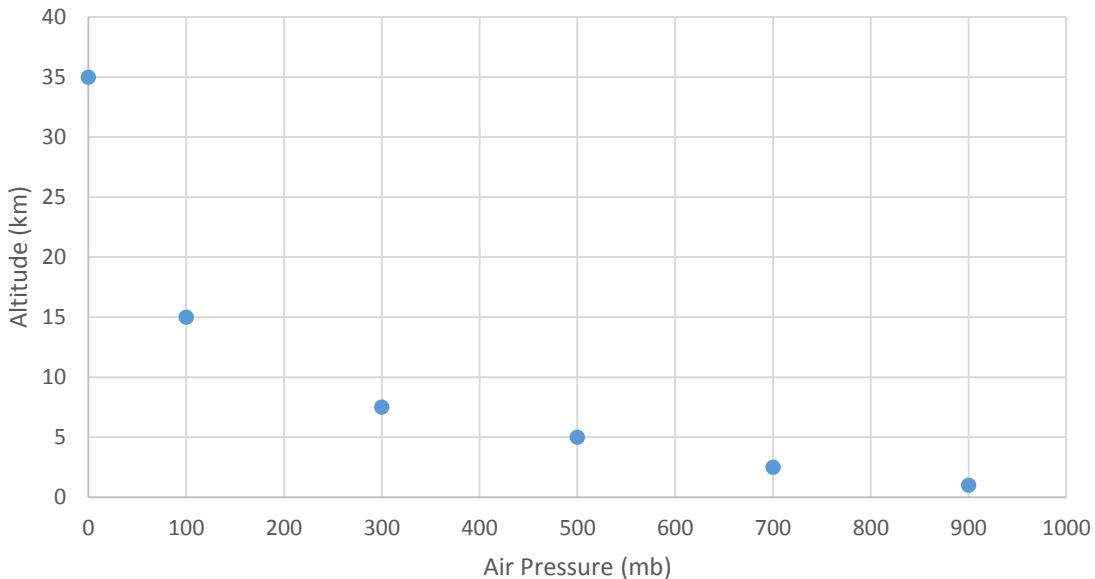
# Air Pressure – Can You Feel It?

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.

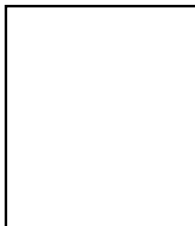
Directions: Complete the following as you watch the presentation on air pressure.

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.

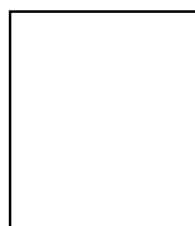


5. Air pressure is dependent on \_\_\_\_\_. (Note: Density is the mass in a given volume. So the more molecules there are in a given space, the higher the density. Density is a measure of how many molecules are packed into a space.)
6. Air that is more dense will have a \_\_\_\_\_ because there are more 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.

More Dense



Less Dense



9. Air pressure is effected by three (3) factors

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

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.

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.