

Name _____ Date _____ Period _____

Air **PRESSURE** and Density

TEA BAG PHENOMENON - Free Write

<p>What do you think caused the phenomenon to occur?</p>	<p>Draw a diagram showing what you think is happening, make sure to add labels.</p>
--	---

PRESSURE AND DENSITY OF THE ATMOSPHERE ARTICLE - Questions

1. What is air density?
2. Why does the density of air change with altitude changes?
3. What are 2 factors acting on air pressure?
4. Why are we not crushed by air surrounding us?
5. What causes our ears to pop?
6. How is the air pressure at sea level different than air pressure at 50,000 feet

HISTORY OF THE BAROMETER VIDEO - Questions

Answer the following questions while observing the following TedEd video.

1. What can happen if there is a sudden shift in air pressure?
2. How was the first vacuum created?
3. Explain some of the difficulties early scientists, like Galileo, had to overcome to create the first barometer.

4. How does a barometer work?

5. Why do you think it took many trials to make the first barometer?

INTERACTIVE WEBSITE - http://www.glencoe.com/sites/common_assets/science/virtual_labs/ES14/ES14.html - use the pink arrow to increase or decrease the altitude and then launch to gather the data for that altitude to complete the following data table.

Altitude	Density	Pressure	Temperature
0 km			
10 km			
25 km			
50 km			
60 km			
75 km			
100 km			
150 km			
200 km			
400 km			