			100
Name	Date	Period	

air PRESSURE and Density

ACTIVITY I - TEA BAG PWENOMENON

What do you think caused the phenomenon to occur?	Draw a diagram showing what you think is happening, make sure to add labels and descriptions		

ACTIVITY 2 - PRESSURE AND DENSITY OF THE ATMOSPHERE

Read the article from the Class Craft Quest to answer the following 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

ACTIVITY 3 - HISTORY OF THE BAROMETER VIOEO

Answer the following questions while observing the following TedEd video found in the Class Craft Quest.

- 1. What can happen if there is a sudden shift in air pressure?
- 2. How was the first vacuum created?

4. How does a barometer work?						
5. Why do you thin! ACTIVITY 4 - INTERACT	k it took many trials to ma	ke the first barometer?				
Use the link in Class Craft		· ·	n the left to increase or deci	rease the		
Altitude	Density	Pressure	Temperature			
0 km						
10 km						
25 km						
50 km						
60 km						
75 km						
100 km						
150 km						
200 km						
400 km						
ANALYSIS QUESTIONS 1. What pattern do you	u notice with the tempera	ature as altitude increas	ed?			
2. What pattern do you notice with the pressure as altitude increased?						

3. What pattern do you notice with the density as altitude increased?

3. Explain some of the difficulties early scientists, like Galileo, had to overcome to create the first barometer.