

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## How Great is Atmospheric Pressure? - Worksheet 1

Record your group data in the table below:

Object	Weight (pounds mass)	Force (pounds force) weight x 32.2	Contact area (inches <sup>2</sup> )	Pressure (psi) force ÷ contact area

1. Predict which item from the class list you think is the closest example to the value of the actual pressure of the air around you?

\_\_\_\_\_

2. Explain why you think this.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. How does air pressure change with altitude? Explain your thoughts below.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## Aluminum Can Demonstration Observations

	Your Description of Changes Observed
<b>On tabletop, after heating</b>	
<b>After submerging in ice water</b>	

1. In the space below, draw a diagram of the can in the ice water. Use a letter H on your diagram to indicate the location of higher air pressure. Use a letter L on your diagram to indicate the location of lower air pressure.

2. Explain how you knew where to put the H and L on your diagram.

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