

Name:	Class:

## **Pressure and Molecular Motion**

**GRADES** 6-8

Collect data on the bounce back height when the ball is dropped from 2 meters. [A properly inflated ball will bounce back 115-165 centimeters.]

	Flat	3 PSI	6 PSI	9 PSI	12 PSI	15 PSI
Futsal Ball						
Soccer Ball						

## Based on the data above, answer the following questions:

1. What are some disadvantages of an under-inflated ball?

2. What are some disadvantages of an over-inflated ball?



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3. Predict what will happen to the bounce of the ball if you continue to increase the pressure past 15 PSI. Use evidence to support your answer.

4. Draw a molecular diagram of the ball at 3 PSI vs 15 PSI.



