NAME_____ _____ PD_____ DATE_____

Boyle's Law - Worksheet

1. Which variable is plotted on the graph's vertical axis? _____
2. Which variable is plotted on the graph's horizontal axis? _____
3. Locate the temperature gauge. What is the Kelvin temperature? _____
4. Which of the following conditions is that temperature closer to? room temperature? human body temperature? freezer temperature? _____

5. The red plunger is used to exert pressure on the gas molecules in which colored area? _____

6. Complete the table below as you watch the animated gas lab.

PRESSURE	VOLUME
1.00	
1.33	
2.00	

7. What do you predict the volume will be when the pressure changes to 4.00? _____
8. Sketch the completed pressure-volume graph.

9. Click on "**Effect of changing pressure on volume**." Describe what is added to the piston to increase the pressure._____
_____
10. Sketch the completed volume-pressure graph.

11. Write the formula equation for Boyle's Law._____

12. Write the equation for Boyle's Law in words. _____
_____

13. In the Animated Gas Lab, what are the units of pressure? _____

14. What are the units of volume used in this lab? _____

15. Predict what the volume in this lab would be if the pressure were 8.00. _____