Chapters 6 and 7		10
Transparency Worksheet		
	Name	
Boyle's Law	Class	Date
1. What observations can you make about the content	ts of the two flasks in the diagram?	
2. State Boyle's Law.		
3. (a) According to the graph, what would be the volu		
 (b) When the pressure is 50 kPa? 4. What relationship does this graph indicate? 		
5. Write the equation for Boyle's Law.		
6. If a sample of gas has a volume of 150 cm ³ when the sure is increased to 200 kPa? The temperature and a	-	_
7. What pressure is required to reduce the volume of a sure on the sample is 103 kPa; the amount and temp	-	

Critical Thinking

8. (a) If you have two equal size containers of nitrogen gas each holding the same amount of gas and you were to transfer the gas from both containers into one of the containers, how would the pressure of the gas be

affected? Assume that the temperature does not change.

⁽b) How does this problem illustrate Boyle's Law? Use the back of this worksheet to make a drawing of the two containers before and after the transfer of the gas.