Name:	_ Date:	Hour: A	ssignment #		
Gas Properties Graphing Activity					
Go to the following website: http://ph	et.colorado.edu/en/	simulation/gas-p	properties		
Part I. Pressure and Number of gas	<u>particles</u>				
<b>QUESTION:</b> What will happen to the particles increases?	pressure of a gas within a	a closed container as	the number of gas		
→PREDICTION (hypothesis):			<del></del>		
2. Allow the particles to circulate and of the number of gas particles and pressure the right side of the screen where it sa 3. Pull up and down on the pump anoth particles to circulate and observe pressure gas particles and pressure in the table be 4. Repeat the steps above until 8 pumps 5. After completing the table, create a gand the pressure. Place # of gas particle # of pumps	e in the table below. The ays "heavy species".  This will represente. When pressure appearelow.  Is have been completed an graph show the relationsh	number of gas parent 2 pumps of the hars to "level off", record all data in this petween the number of gas parents.	andle. Allow the cord the number of the table below.		
1					
2					
3					
4		<u> </u>			
. 5					
6					
7					
8	<u> </u>				
→CONCLUSION:					

QUESTION: How does incr		of a gas affect its pre	ssure?
→PREDICTION:		-	
Procedure:  1. Hit the reset button to beging the handle TWICE to the solution of the pressure "levels off" to the table.  5. Repeat step 3 with the following the table, the pressure. Place temperature of the pressure.	o allow gas into the cond, record the temperature ORE GAS PARTICLE pressure. When pressure owing temperatures: 70% create a graph show the	e and pressure in the CS, add heat to raise to "levels off", record 0 K, 900 K, and 1100 e relationship between	table on opposite page. The temperature within the distance temperature and pressure in the K. Record in table. The temperature of a gas an
	Temperature	Pressure	]
			·
	500 K		
	700 K		
	900 K		
	1100 K		
→CONCLUSION:			
Part III: Observations of Property 1. Hit the reset button to begin 2. Pump the handle once to fi 4. When pressure "levels off" container smaller. Observe with 5. Move the person back and happens to pressure.	n. Il with gas particles. Ob , click on the person an hat happens to pressure	d drag him closer to	
→CONCLUSION:			
→Which gas law does this sin	nulation between press	ure and volume desc	cribe?
→ What is the formula for this	gas law?		

→n your graph paper, make a sketch of a graph showing the relationship between pressure and volume. Place pressure on the y-axis and volume on the x-axis! Label this sketch <u>Pressure and Volume</u>.

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