Unit 10 Gas Laws	Team Names:				
Relay Race #1	Block #	Date			
Instructions:					
Player #1 will use Boyle's Law to solve for press solve for temperature. Player #3 will then take Finally Player #4 will take that volume and use i sections correctly wins the game.	that temperature	and insert it into Char	les Law to solve for volume.		
Player #1: Boyle's Law					
A piston chamber contains 325 ml of gas at a pr while the piston expands to increase the volum		•			
Player #2: Gay Lussac's Law					
The piston chamber now has a pressure of will the final temperature be <i>in Kelvin</i> , if the vol					
Player #3: Charles' Law					
The piston now has a temperature of final volume be, if the pressure is held constant					

Player #4: Avogadro's Law

Let's assume that the piston chamber contains 0.80 grams of methane gas at the current volume of ______, as recorded above. If the temperature and pressure are held constant, and the final volume of the chamber increases to 333 ml, how many moles of methane gas <u>were added</u> to the chamber?

Tie Breaker: How many grams of methane were added to the chamber?

Unit 10 Gas Laws	Team Names:		
Relay Race #2	Block #	Date	_
Instructions:			
Player #1 will use Boyle's Law to solve for press solve for temperature. Player #3 will then take Finally Player #4 will take that volume and use i sections correctly wins the game.	that temperature and	insert it into Charles Law to solv	ve for volume.
Player #1: Boyle's Law			
A piston chamber contains 2.50 L of gas at a pre the piston compresses to decrease the volume			t at 40.0 °C, while
Player #2: Gay Lussac's Law			
The piston chamber now has a pressure of will the final temperature be <i>in Kelvin</i> , if the vol			
Player #3: Charles' Law			
The piston now has a temperature ofvolume be, if the pressure is held constant, and			What will the final

Player #4: Avogadro's Law

Let's assume that the piston chamber contains 2.24 grams of oxygen gas at the current volume of _______, as recorded above. If the temperature and pressure are held constant, and the final volume of the chamber decreases to 0.227 L, how many moles of oxygen gas <u>were removed</u> from the chamber?

Tie Breaker: How many grams of oxygen were removed from the chamber?