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Gas Laws

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|  |  |  | 15  P | R | E | S | S | U | R | E |  | 16  B | O | Y | L | E | S | L | A | W |  | R |  |  |  | I |  |  |  |
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| **Across**  **3.** The speed of a gas particle is inversely related to the square root of its mass  **7.** Represented by Pa  **9.** When perfume is sprayed in one corner of a room, but can eventually be smelled in the other corner.  **11.** Measures pressure in general  **13.** The greatest teacher in the entire world and the teacher that will hopefully accept this extremely late paper. <3  **15.** Represented by the letter p  **16.** At constant T and n, the pressure and volume of a gas are inversely related.  **17.** In a mixture of gases, the total pressure is equal to the sum of the individual partial pressures.  **18.** Series of laws that describe the behavior of samples of gases under varying conditions of V, T, P, and amount.  **19.** Standard Temperature and Pressure is abbreviated is....  **21.** Universal gas law  **22.** At constant P and n, the volume of a gas is directly related to its Kelvin temperature. | **Down**  **1.** Represented by the letter V  **2.** At constant V and n, the pressure of gas is directly related to its Kelvin temperature.  **4.** n represents the number of what  **5.** This instrument measures atmospheric pressure  **6.** The volume of gas depends upon the moles of particles.  **8.** Celcius plus 273 makes this measurement of temperature  **10.** Heating up the molecules of a gas allow the particles to move....  **12.** The process in which gas escapes through a small hole in its container  **14.** This state of matter assumes the shape and volume of its container, they are compressible, mix evenly and completely, have low densities, and exert pressure.  **20.** Celsius, Fahrenheit, and Kelvin are measurements of what |