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Gas Laws

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|  |  |  |  |  |  | 9D |  I |  F | 10F |  U |  S |  I |  O |  N |  |  |  |  | 11M |  A |  N |  O |  M |  E |  T | 12E |  R |  |  |
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|  |  |  | 15P |  R |  E |  S |  S |  U |  R |  E |  | 16B |  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 |