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Gas Laws

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| **Across**  **5.** it has never been this cold = zero K  **8.** the SI unit for the amount of substance  **9.** volume and temperature are directly proportional  **10.** 0.0821 L-atm/mol-K  **11.** a number written in front of a reactant or product of a chemical equation  **12.** describes the physical behavior of an ideal gas | **Down**  **1.** equal volumes of gases at the same temperature and pressure contain equal numbers of particles  **2.** the pressure of a gas and the kelvin temperature are directly proportional  **3.** combines Boyles, Charles, and Gay-Lussacs Laws  **4.** volume and pressure are inversely proportional  **6.** describes a relationship in nature that is supported by many experiments  **7.** 22.4 L |