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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 |