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gas laws

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| **Across**  **2.** V1/T1 = V2/T2  **7.** a substance or matter in a state in which it will expand freely to fill the whole of a container  **9.** firm and stable in shape; not liquid or fluid.  **11.** a substance that flows freely but is of constant volume, having a consistency like that of water or oil.  **12.** V1/n1= V2/n2  **13.** P1/T1 = P2/T2  **15.** indirect relationship between pressure and volume  **16.** the direct relationship between pressure and temperature | **Down**  **1.** P1 x V1 = P2 x V2  **3.** P1V1/T1=P2V2/T2  **4.** a law combines Lussac's, Charles's, and Boyles's Law, indirect  **5.** the ideal law with all factors at STP, including # of moles  **6.** the direct relationship between the # of moles and volume  **8.** the ideal law with all factors at STP, including # of moles  **10.** continuous physical force exerted on or against an object by something in contact with it  **14.** direct relationship between volume and temperature |