

# Gas Law Formulas

**Boyle's Law**

$$P_1 V_1 = P_2 V_2$$

**Charles' Law**

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

**Avogadro's Law**

$$\frac{V_1}{n_1} = \frac{V_2}{n_2}$$

**Ideal Gas Law**

$$PV = nRT$$

**Gay-Lussac's Law**

$$\frac{P_1}{T_1} = \frac{P_2}{T_2}$$

**Combined Gas Law**

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$