

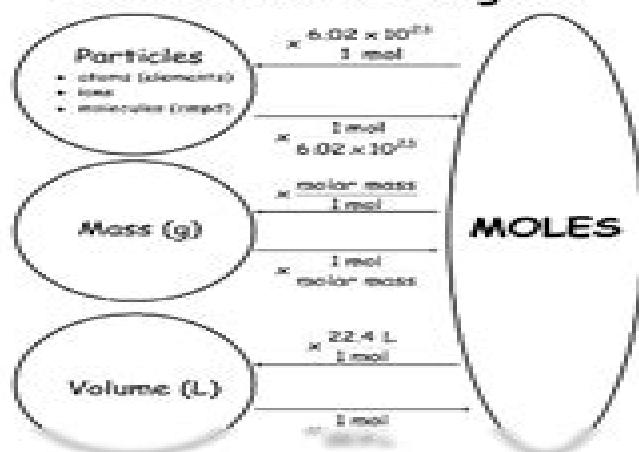
Honors Chemistry B- Final Exam Formula Sheet

Note: You will not use all of these formulas for this test

Temperature Formulas:

$$^{\circ}\text{C} = (^{\circ}\text{F} - 32) \cdot \frac{5}{9} \quad ^{\circ}\text{F} = \frac{9}{5}^{\circ}\text{C} + 32 \quad \text{K} = ^{\circ}\text{C} + 273$$

Mole Conversion Diagram



$$1 \text{ atm} = 760 \text{ mm Hg} = 101.3 \text{ kPa}$$

$$P_1 + P_2 = P_3 + P_4$$

$$\frac{Q}{T} = \frac{Q}{T}$$

$$\frac{Q}{T} = \frac{Q}{T}$$

$$\Delta G = \Delta H - T\Delta S$$

$$P \times T = n \times R \times T = PV = nRT$$

$$P_{\text{total}} = P_1 + P_2 + P_3 + \dots$$

$$\Delta G = \Delta H - T\Delta S$$

$$\text{Percent Yield} = \frac{\text{Actual Yield}}{\text{Theoretical Yield}} \times 100\%$$

$$M_1 \times V_1 = M_2 \times V_2$$

$$\text{Percent by Mass} = \frac{\text{Mass of Solute}}{\text{Mass of Solution}} \times 100$$

$$\text{Percent by Volume} = \frac{\text{Volume of Solute}}{\text{Volume of Solution}} \times 100$$

$$\text{Mole fractions: } X_A = \frac{n_A}{n_A + n_B} \quad X_B = \frac{n_B}{n_A + n_B}$$

$$1 \text{ Calorie} = 1 \text{ kilocalorie} = 1000 \text{ calories}$$

$$Q = mc\Delta T$$

$$q_{\text{sys}} = \Delta H = -q_{\text{surr}} = -m \times C \times \Delta T$$

$$\Delta H^{\circ} = \Delta H_f^{\circ}(\text{products}) - \Delta H_f^{\circ}(\text{reactants})$$

$$K_c = \frac{[\text{C}]^c \times [\text{D}]^d}{[\text{A}]^a \times [\text{B}]^b}$$

$$\Delta G = \Delta H - T\Delta S$$

$$\Delta G = \Delta H - T\Delta S$$

$$K_w = [\text{H}^+] \times [\text{OH}^-] = 1.0 \times 10^{-14}$$

$$\text{pH} = -\log[\text{H}^+]$$

$$\text{pOH} = -\log[\text{OH}^-]$$

$$K_c = \frac{[\text{H}^+][\text{A}^-]}{[\text{HA}]}$$

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