

STAAR CHEMISTRY REFERENCE MATERIALS



ATOMIC STRUCTURE

$$\text{Speed of light} = (\text{frequency})(\text{wavelength}) \qquad c = f\lambda$$

$$\text{Energy} = (\text{Planck's constant})(\text{frequency}) \qquad E_{\text{photon}} = hf$$

$$\text{Energy} = \frac{(\text{Planck's constant})(\text{speed of light})}{(\text{wavelength})} \qquad E_{\text{photon}} = \frac{hc}{\lambda}$$

BEHAVIOR OF GASES

$$\text{Total pressure of a gas} = \left(\begin{array}{c} \text{sum of the partial pressures} \\ \text{of the component gases} \end{array} \right) \qquad P_T = P_1 + P_2 + P_3 + \dots$$

$$(\text{Pressure})(\text{volume}) = (\text{moles})(\text{ideal gas constant})(\text{temperature}) \qquad PV = nRT$$

$$\frac{(\text{Initial pressure})(\text{initial volume})}{(\text{Initial moles})(\text{initial temperature})} = \frac{(\text{final pressure})(\text{final volume})}{(\text{final moles})(\text{final temperature})} \qquad \frac{P_1V_1}{n_1T_1} = \frac{P_2V_2}{n_2T_2}$$

$$(\text{Initial pressure})(\text{initial volume}) = (\text{final pressure})(\text{final volume}) \qquad P_1V_1 = P_2V_2$$

$$\frac{(\text{Initial volume})}{(\text{Initial temperature})} = \frac{(\text{final volume})}{(\text{final temperature})} \qquad \frac{V_1}{T_1} = \frac{V_2}{T_2}$$

$$\frac{(\text{Initial volume})}{(\text{Initial moles})} = \frac{(\text{final volume})}{(\text{final moles})} \qquad \frac{V_1}{n_1} = \frac{V_2}{n_2}$$

SOLUTIONS

$$\text{Molarity} = \frac{\text{moles of solute}}{\text{liter of solution}} \qquad M = \frac{\text{mol}}{\text{L}}$$

$$\text{Ionization constant of water} = \left(\begin{array}{c} \text{hydrogen ion} \\ \text{concentration} \end{array} \right) \left(\begin{array}{c} \text{hydroxide ion} \\ \text{concentration} \end{array} \right) \qquad K_w = [\text{H}^+][\text{OH}^-]$$

$$\left(\begin{array}{c} \text{Volume of} \\ \text{solution 1} \end{array} \right) \left(\begin{array}{c} \text{molarity of} \\ \text{solution 1} \end{array} \right) = \left(\begin{array}{c} \text{volume of} \\ \text{solution 2} \end{array} \right) \left(\begin{array}{c} \text{molarity of} \\ \text{solution 2} \end{array} \right) \qquad V_1M_1 = V_2M_2$$

$$\text{pH} = -\log(\text{hydrogen ion concentration}) \qquad \text{pH} = -\log[\text{H}^+]$$

THERMOCHEMISTRY

$$\text{Heat gained or lost} = (\text{mass}) \left(\begin{array}{c} \text{specific} \\ \text{heat} \end{array} \right) \left(\begin{array}{c} \text{change in} \\ \text{temperature} \end{array} \right) \qquad Q = mc_p\Delta T$$

$$\text{Enthalpy of reaction} = \left(\begin{array}{c} \text{enthalpy} \\ \text{of products} \end{array} \right) - \left(\begin{array}{c} \text{enthalpy} \\ \text{of reactants} \end{array} \right) \qquad \Delta H = \Delta H_f^\circ(\text{products}) - \Delta H_f^\circ(\text{reactants})$$

Key To The Staar Chemistry Assessment Activities

Edward Cheng



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Passing the Principal TExES Exam Elaine L. Wilmore, 2013-04-12 Your guide to acing the TExES exam This best selling handbook is the definitive resource for prospective principals who want to boost student performance and demonstrate outstanding school leadership Thoroughly updated to address the completely revamped TExES exam this new edition details The domains and competencies of successful school leadership The leadership philosophy on which TExES is constructed A sample test and important areas to focus on What to do in the weeks days and even the night before the test An extensive list of additional resources to supplement each domain Forthcoming Books Rose Army, 1997-12 Books in Print , 1993-09 V 1 Authors A D v 2 Authors E K v 3 Authors L R v 4 S Z v 5 Titles A D v 6 Titles E K v 7 Titles L Q v 8 Titles R Z v 9 Out of print out of stock indefinitely v 10 Publishers **Living by Chemistry Assessment Resources** Angelica M. Stacy, Janice A. Coonrod, Jennifer Claesgens, Key Curriculum Press, 2009 **Activities & Assessment Pack** George Burton, 1994

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the developed concept to further examples *Chemistry* Edward Cheng,2007 Assessment Tests for Higher Chemistry
Buchanan,2000-12 **Assessment Tests for Higher Chemistry** Douglas Buchanan,James Melrose,2015 Salters'
Advanced Chemistry George Burton,2000-08-30 This advanced chemistry text has been updated to match the specification
for A Level Chemistry from September 2000 It contains Chemical Storylines Chemical Ideas and sample material from the
Activities and Assessment Pack and Teacher s Guide together with the Salters Advanced Chemistry syllabus and further
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