



EFFECTIVE: SEPTEMBER 2004
CURRICULUM GUIDELINES

A. Division: **Science and Technology**

Effective Date: **September 2004**

B. Department /
Program Area: **Chemistry**

Revision

New Course

Technol

Course Content: (Continued)

4. **Gases and Liquids**

Properties of gases, Boyle's Law, Charles Law, and the Ideal Gas equation, calculations, gas mixtures, Dalton's Law of partial pressures, Kinetic Molecular Theory, the atmosphere. The liquid state, vaporization and condensation, $H_{\text{phase change}}$ and calculation of heat of phase changes.

5. **Introduction to Acids and Bases**

Properties, definitions, conjugate acid/base pairs, autoionization of water, pH scale, relative acid strengths, K_a and K_b , calculations, salts and hydrolysis, common ion effect.

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