Unit 10- Solutions and Acids & Bases

**Georgia Performance Standards**

**SC7. Students will characterize the properties that describe solutions and the nature of acids and bases.**

**a. Explain the process of dissolving in terms of solute/solvent interactions:**

**• Observe factors that affect the rate at which a solute dissolves in a specific solvent,**

**• Express concentrations as molarities,**

**• Prepare and properly label solutions of specified molar concentration,**

**• Relate molality to colligative properties.**

**b. Compare, contrast, and evaluate the nature of acids and bases:**

**• Arrhenius, Brönsted-Lowry Acid/Bases**

**• Strong vs. weak acids/bases in terms of percent dissociation**

**• Hydronium ion concentration**

**• pH**

**• Acid-Base neutralization**

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|  | **Assignments** | **Completed** |
| 1 | Lab: Factors Affecting Dissolution |  |
| 2 | CW 1- Molarity & Molality Problems |  |
| 3 | CW 2- Colligative Properties |  |
| 4 | HW 1: Solutions |  |
| 5 | CW 3- Arrhenius vs. Bronsted-Lowry Acids/Bases |  |
| 6 | CW 4- pH |  |
| 7 | Lab: pH |  |
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