OL Task List for Module #7

(Dates are subject to change- I will keep an updated version on Canvas)

Learning Objectives for Unit 7: Solutions, Acids and Bases

**SC6. Obtain, evaluate, and communicate information about the properties that describe solutions and the nature of acids and bases.**

*a. Develop a model to illustrate the process of dissolving in terms of solvation versus dissociation.*

*b. Plan and carry out an investigation to evaluate the factors that affect the rate at which a solute dissolves in a specific solvent.*

*c. Use mathematics and computational thinking to evaluate commercial products in terms of their concentrations (i.e., molarity and percent by mass).*

*d. Communicate scientific and technical information on how to prepare and properly label solutions of specified molar concentration.*

*e. Develop and use a model to explain the effects of a solute on boiling point and freezing point.*

*f. Use mathematics and computational thinking to compare, contrast, and evaluate the nature of acids and bases in terms of percent dissociation, hydronium ion concentration, and pH.*

*g. Ask questions to evaluate merits and limitations of the Arrhenius and Bronsted-Lowry models of acid and bases.*

*h. Plan and carry out an investigation to explore acid-base neutralization.*

Task List: RED must be done at HOME / BLUE is done in CLASS

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| 4/18/18-4/24/18 | Introduction to Solutions  Day 1  Solubility Day 2  Solubility Day 3  Solubility Day 4  Solution Concentration Day 5 | * Complete **Unit 7 Solutions, Acids and Bases Pretest** (Due: 4/18/18) * Watch **Introduction to Solutions** video and take notes * Complete **Introduction to Solutions Video Application Questions** Discussion post (Due: 4/18/18) * Take the **Solutions Vocab Quiz** (Due: 4/19/18) * Watch the **Solubility and Solubility Curves** video and take notes in preparation for tomorrow’s assignment. * Print and Complete the **Solubility Curve Practice** sheet and turn in a hard copy into the box (Due: 4/19/18) * Print and complete the **Solubility Curve Lab** in class and turn in a hard copy into the box (Due: 4/20/18) * Take the **Solubility Practice Quiz** (Due: 4/23/18) * Read the **Solutions Concentrations Notes** and take notes in preparation for tomorrow’s assignment. I will be checking your notes for a grade! (Due 4/24/18) * Print and complete the **Solution Concentration Practice Problems** practice sheet and turn in a hard copy into the box (Due: 4/25/18) |
| 4/25/18-5/1/18 | Solution Concentration Review Day 1  Solution Concentration Review Day 2  Dilution Lab Assessment Day 3  Colligative Properties and Review Day 4  Solutions Assessment Day 5 | * Watch the **Dilutions and Example Problems** video and take notes (I will be checking your notes) * Print and complete the **Dilutions Worksheet** practice sheet and turn in a hard copy into the hood (Due: 4/26/18) * Take the **Concentrations Practice Quiz** (Due: 4/26/18) * Print and complete the **Koolaid Molarity Lab** in class and turn in a hard copy into the hood (Due: 4/30/18) * Complete **Colligative Properties** Discussion post (Due: 4/30/18) * Review Day in Class for Unit 7.1 Solutions Quiz – **Solutions Review Sheet** * 7.1 Solutions Quiz (taken in class) * Watch the **Section 18.1 Intro to Acids and Bases** video and take notes on the **Acids and Bases Note Guide** |
| 5/2/18-5/8/18 | Introduction to Acids and Bases  Day 1  Strengths of Acids and Bases  Day 2  Hydrogen Ions and pH  Day 3  pH and pOH  Day 4  Neutralization  Day 5 | * Watch the **Naming Acids Video Lecture** or sit with Ms. Zacker for her lecture. * Complete ONLY Section 18.1 on the **Acids and Bases Practice Problems** worksheet * Take the **Acid Nomenclature Quiz** (DUE: 5/3/18) * Watch the **Section 18.2 Strengths of Acids and Bases** video and take notes on the **Acids and Bases Note Guide** * Complete ONLY Section 18.2 on the **Acids and Bases Practice Problems** worksheet * Print and complete the **Conjugate Acid Base Pairs** worksheet and turn into the hood (DUE: 5/3/18) * Watch the **Section 18.3 Hydrogen Ions and pH** video and take notes on the **Acids and Bases Note Guide** * Complete ONLY Section 18.3 on the **Acids and Bases Practice Problems** worksheet * Print and complete the **pH and pOH Problems** worksheet and turn into the hood (DUE: 5/4/18) * Take the **pH Practice Quiz** (DUE: 5/7/18) * Watch the **Section 18.4 Neutralization** video and take notes on the **Acids and Bases Note Guide** * Complete ONLY Section 18.4 and the Chapter 18 Concept Review on the **Acids and Bases Practice Problems** worksheet * Review the **Neutralization of a Soft Drink Lab** and complete the introduction paragraph – WE WILL DO THIS LAB ON MONDAY! |
| 5/9/18-5/15/18 | Neutralization Lab  Day 1  Acids and Bases Review Day 2  Acids and Bases Assessment Day 3  Unit 7 Review  Day 4  Unit 7 Assessment  Day 5 | * Print and complete the **Neutralization of a Soft Drink Lab** in class and turn in a hard copy into the hood (Due: 5/10/18) * Take the **Acids and Bases Practice Quiz** (Due: 5/10/18) * 7.2 Acids and Bases Quiz (taken in class) * **Unit 7 Assessment Discussion Post** (DUE: 5/11/18 by 11:59 pm) * Review Day in Class for Unit 7   + Class discussion from yesterday’s discussion post   + Go over all Quizzes and the Unit 7 Pre-test * Unit 7 Test (taken in class) |