Task List for Module #7

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

|  |  |  |
| --- | --- | --- |
| 4/9/18-4/13/18 | Introduction to SolutionsDay 1Solubility Day 2Solubility Day 3 and 4Solution Concentration Day 5 | * Complete **Unit 7 Solutions, Acids and Bases Pretest** (Due: 4/9/18)
* Watch **Introduction to Solutions** video and take notes
* Complete **Introduction to Solutions Video Application Questions** Discussion post (Due: 4/9/18)
* Take the **Solutions Vocab Quiz** (Due: 4/10/18)
* 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 hood (Due: 4/10/18)
* Print and complete the **Solubility Curve Lab** in class and turn in a hard copy into the hood (Due: 4/13/18)
* Take the **Solubility Practice Quiz** (Due: 4/11/18)
* Read the **Solutions Concentrations Notes** and take notes in preparation for tomorrow’s assignment.
* Print and complete the **Solution Concentration Practice Problems** practice sheet and turn in a hard copy into the hood (Due: 4/16/18)
 |
| 4/16/18-4/20/18 | Solution Concentration Review Day 1Solution Concentration Review Day 2Dilution Lab Assessment Day 3Colligative Properties and Review Day 4Solutions Assessment Day 5 | * Watch the **Dilutions and Example Problems** video and take notes
* Print and complete the **Dilutions Worksheet** practice sheet and turn in a hard copy into the hood (Due: 4/17/18)
* Take the **Concentrations Practice Quiz** (Due: 4/17/18)
* Print and complete the **Koolaid Molarity Lab** in class and turn in a hard copy into the hood (Due: 4/19/18)
* Complete **Colligative Properties** Discussion post (Due: 4/19/18)
* 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**
 |
| 4/23/18-4/27/18 | Introduction to Acids and BasesDay 1Strengths of Acids and BasesDay 2Hydrogen Ions and pHDay 3pH and pOHDay 4NeutralizationDay 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: 4/24/18)
* 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: 4/24/18)
* 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: 4/26/18)
* Take the **pH Practice Quiz** (DUE: 4/26/18)
* 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!
 |
| 4/30/18-5/4/18 | Neutralization LabDay 1Acids and Bases Review Day 2Acids and Bases Assessment Day 3Unit 7 ReviewDay 4Unit 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: 5/1/18)
* Take the **Acids and Bases Practice Quiz** (Due: 5/1/18)
* 7.2 Acids and Bases Quiz (taken in class)
* **Unit 7 Assessment Discussion Post** (DUE: 5/2/18 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)
 |