Table of Contents: Lab Work

SCH3UE 07-08

Lab #	Syllabus Section	Title of Investigation	Course Unit & Section Tested
1		Thickness of Aluminum Foil	Measurement + Data
2		Number of molecules in H ₂ O, Chalk, and	Moles
		Candy	
3		Percent Composition of MgO	Moles
4		Formula of a hydrate, Epsom salt	Moles - Planning
5		Empirical Formula of MgCl ₂	Moles
6		Simulation of an Air Bag Gases	Planning
7		Volume vs. Temperature Graph:	Gases: DP: ITC
		Computer Analysis	
8		% Sodium hydrogen carbonate in an	
		Alka-Seltzer Tablet	
9		Pressure required to pop Popcorn	Gases - Planning
10		Mass Relationship in an equation:	MS, DC, DP&C
		Aluminum and Copper (II) chloride	
		dihydrate	
11		Determination of Solubility of a Salt	MS
12		Making a solution	MS
13		Dilution of a solution	MS
14		Determination of Volume of gas at SATP:	MS, PS
		Mg + HCl	
15		Determination of Molar Volume from	Gases: DP
		experimental Data	
16		Estimation of concentration of a Solution	Solutions: DC, DP
		using a spectroscope	
17		Double Displacement Reactions: Using	
		Solubility Rules	
18		Using Solubility Graphs: Computer	ITC
		Analysis	
19		Gravimetric Analysis: $Pb(NO_3)_{2(aq)} + KI_{(aq)}$	DC, DE &C
20		Planning Lab: Stoichiometry of a Reaction:	Planning Lab, Lab
		Na ₂ CO ₃ + CaCl ₂	Quiz
21		Titration: Standardization of NaOH using	
		HCl	
22		Observing the Hydrogen Spectrum	Atomic Theory
23, 24, 25		Qualitative Analysis: 3 hours	
26		Electrolytes: Strong and Weak Acid –Base	ITC

27	Titration Curve for a strong acid-strong	
	Base	
28	Lab: Testing for Polarity of Compounds	
29	Lab activity: Polarity of Molecules and	
	IMFA's	
30	Planning Lab: testing the structure of	
	Ionic, molecular covalent, Network and	
	metallic substances	
31	Enthalpy of Ionic substances: Lattice	
	Energy vs. Hydration Energy	
32	Enthalpy of a reaction: Zn + CuSO ₄	
33	Hess's Law: NaOH + HCl	
34	Assignment: Molecules and Networks	