Assignment Checklist Chemistry

Key INTRO: Introduction, WU: Warm-Up, CD: Content, PPT: Presentation, AC: Application of Content, S: Summary, GS: Getting Started, MS: Module Survey, MT: Module Test, MAA: Module Authentic Assessment

Topic/Page in Course	Activity Title	Activity Type	Total Points	Date Completed	Points Earned
Introductory	v Module: Fundamentals of Science	e			
GS	The History of Chemistry	Video			
0.1 WU	The Scientific Method	Interactivity			
0.1 AC	Scientific Investigation Design	Scientific Investigation			
0.2 WU	Systems of Measurement	Think			
0.2 AC	Measurement Scenarios	Scenarios and Worksheet			
0.3 WU	What is Significant?	Brainstorm/List			
0.3 AC	Significant Figures and Calculations	Problem Set			
0.4 WU	A Graph is Worth a Thousand Words	Discussion			
0.4 AC	Make Your Own Graph	Graph			
0.5 WU	Previous Equipment	Think About			
0.5 AC	Lighting a Gas Burner	Check for Understanding			
0.6 WU	Safety Protection Find	Interactivity			
0.6 AC	Safety in the Lab	Public Service Announcement			
MAA	Fundamentals of Science App	App Design			
MT	Module Test	Test			
Module 1: W	/hat is Chemistry?				
GS	Day at the Beach	Interactivity			
1.1 WU	Matter Around You	Think			
1.1 AC	Nuts and Bolts Scientific Investigation	Virtual Scientific Investigation			
1.2 WU	Chemical and Physical Reactions: They Are Eggsellent!	Interactivity			
1.2 AC	Properties of Matter	Quiz			
1.3 WU	Is it Gold?	Interactivity			
1.3 AC	Calculating Density	Virtual Scientific Investigation			
1.4 WU	Trapped on a Desert Island	Think			
1.4 AC	Separation Techniques Procedure Design	Procedure Design			
	Separation in the Lab Scientific Investigation	Hands-On Scientific Investigation			
1.5 WU	Changing to the Metric System	Discussion			
1.5 AC	Explaining Dimensional Analysis	Email Composition			



MAA	Mystery Matter	Matter Identification		
MT	Module Test	and Analyzation Test		
	tomic Structure and the History o			
GS	Did You Know?	Interactivity		
03	Division or Disappearance	Observation and		
2.1 WU	of Matter	Think About		
	Atomic Theory Debate			
2.1 AC	Note Cards	Note Card Preparation		
		Observation and		
2.2 WU	Do Electrons Exist?	Think About		
2240	Atomic Model			
2.2 AC	Comparison Organizer	Graphic Organizer		
		Web-Sketch and		
2.3 WU	What is in the Box?	Guessing		
2.3 AC	Reconstructing the Gold	Drawing and Labeling		
	Foil Experiment			
2.4 WU	Reading the Periodic Table	Interactivity		
2.4 AC	Identifying and	Problem Set		
2.170	Determining Isotopes			
2.5 WU	Nuclear Chemistry: How Much	Interactivity		
	Do You Know?			
2.5 AC	Nuclear Chemistry	Quiz		
2.6 WU	The Weight of Jellybeans	Think About		
2.6 AC	Average Atomic Mass	Problem Set		
2.7 WU	Can You Sort?	Interactivity		
2.7 AC	Pick an Element	Element Card Design		
MAA	Atomic Structure Timeline	Digital Timeline		
MT	Module Test	Test		
	1odern Atomic Theory, Electron S		y	
GS	Electrons in Potassium	Think About		
3.1 WU	The Importance of Light	Think About		
3.1 AC	The Visible Spectrum	Problem Set		
3.2 WU	Opposites Attract	Think About		
3.2 AC	Analyzing Bohr Models	Problem Set		
3.3 WU	Is Seeing Believing?	Discussion		
3.3 AC	The Quantum Mechanical Model	Quiz		
2 4 33 77 7	The One Rule and Two	T , , * *		
3.4 WU	Principles of Electron	Interactivity		
	Configuration			
3.4 AC	Electron Configurations and	Problem Set		
2.5 WH	Orbital Diagrams	Think Abase		
3.5 WU	Did You Know? Periodic Table	Think About Check for		
3.5 AC	Moseley and Periodic Law	Understanding		
3.6 WU	Guessing Periodic Trends	Interactivity		
3.6 AC	Graphs of Periodic Trends	Graphing		
	Models of the Hydrogen Atom	Virtual Scientific		
MAA	Scientific Investigation	Investigation		
	Selentine investigation	mvesugation	I	



MT	Module Test	Test		
MI MS				
	Course Survey	Survey		
	onding, Formula Writing, and No			
GS	Name That Substance	Interactivity		
4.1 WU	Jokes About Bonds	Jokes and Puns		
4.1 AC	Types of Chemical Bonds	Quiz		
4.2 WU	Electron Configuration	Interactivity		
4.2 AC	Lewis Dot Diagrams	Diagram Drawing		
4.3 WU	Metal, Nonmetal, or Semi-Metal	Think About		
4.3 AC	Ionic Formula Writing and	Ionic Formula Writing		
	Naming: Binary	and Naming		
4.4 WU	Writing Ionic Formulas	Interactivity		
4.4 AC	Writing Ternary Ionic Formulas	Graphic Organizer		
4.5 WU	Sharing Electrons and Bonding	Review and Video		
4.5 AC	Naming Molecular Compounds	Problem Set		
4.6 WU	Lewis Dot Diagrams Review	Sketch		
4.6 AC	VSEPR Theory Using Balloons	Hands-On Scientific		
	Scientific Investigation	Investigation		
4.7 WU	What If?	Discussion		
4.7 AC	Molecular Polarity	Virtual Scientific		
4.7 AC	Scientific Investigation	Investigation		
4.8 WU	Words Using Inter- and Intra-	List		
4.8 AC	Molecular Polarity and	Check for		
4.8 AC	Intermolecular Forces	Understanding		
MAA	Compound Labels	Label Design		
MT	Module Test	Test		
Module 5: C	Chemical Quantities and Composit	ion		
GS	Estimating Quantities	Think About		
5.1 WU	Quantities of Multiples	Think About		
5.1 AC	Mole Conversions	Problem Set		
5.2 WU	Nutrition Facts Label	URL		
		Hands-On		
5.2 AC	Percent Composition is SWEET! Scientific Investigation	Scientific		
		Investigation		
		Interactivity and		
5.3 WU	Calculating Molar Mass	Think About		
5.3 AC	Empirical Formulas are SWEETER!	Problem Set		
		Scientific		
MAA	A Mouthful of Moles: Part A			
		Investigation Design Scientific	{	
	A Marthful of Malan Dart D			
	A Mouthful of Moles: Part B	Investigation		
МТ	Madula Tart	Implementation	<u> </u>	
MT	Module Test	Test		
	Chemical Reactions			
GS	Fire in a Jar	Think About		
6.1 WU	Balancing Act	Online Game		
6.1 AC	Writing and Balancing Chemical Equations	Problem Set		
	Chemical Equations			



6.2 WU	Cleaning Tarnished Silver	Everyday Connection	
6.2 AC	Types of Chemical Reactions	Problem Set	
6.3 WU	Chemical Reactions	Interactivity	
6.3 AC	Predicting Products	Quiz	
6.4 WU	Items Including Water	List	
6.4 AC	Predicting Products of Precipitate Reactions	Problem Set	
6.5 WU	The Chemistry of Pet Food	Everyday Connection	
6.5 AC	Net Ionic Equations and Spectator Ions	Check for Understanding	
MAA	Chemical Reactions Museum Exhibit	Podcast and Transcript	
MT	Module Test	Test	
MS	Course Survey	Survey	
Module 7: S	toichiometry		
GS	Stoichiometry and Apollo 13	Historical Connection	
7.1 WU	Hamburger Ratios	Think About	
7.1 AC	Calculating and Using Mole Ratios	Problem Set	
7.2 WU	Cookie Stoichiometry	Interactivity	
7.2 AC	Gram to Gram Conversions	Problem Set	
7.3 WU	Different Volumes and Densities	Think About	
7.3 AC	Stoichiometric Variations with Dimensional Analysis	Problem Set	
7.4 WU	Limiting Reactants	Discussion	
7.4 AC	Dimensional Analysis for Limiting and Excess Reactants	Problem Set	
7.5 WU	Theoretical vs. Actual Yield	Think About	
	Calculating Percent Yield	Problem Set	
7.5 AC	Synthesis of Aspirin Scientific Investigation	Hands-On Scientific Investigation	
MAA	Stoichiometry Movie Trailer	Movie Trailer	
MT	Module Test	Test	
Module 8: T	hermochemistry		
GS	Candle in a Dark Room	Scenario	
8.1 WU	Meal, Ready to Eat	Everyday Connection	
8.1 AC	Hess's Law and Enthalpy Changes	Problem Set	
8.2 WU	Catalysts and New Chemicals	Video	
8.2 AC	Elephant's Toothpaste Scientific Investigation	Hands-On Scientific Investigation	
8.3 WU	Absorbing and Radiating Energy	List	
8.3 W C	Thermostoichiometry	Problem Set	
8.4 WU	Falling Candy	Think About	
8.4 W 0 8.4 AC	Entropy	Quiz	
8.5 WU	What is Spontaneity?	Discussion	
8.5 WU 8.5 AC	Gibbs Free Energy Equation	Problem Set	
8.6 WU	Phase Changes	Interactivity	
8.6 AC	The Heating Curve of Water	Graph and	
0.0 AC	The meaning Curve of water		I



		Graph Analysis	
0.7.11	Melting an Iceberg vs.		
8.7 WU	Melting an Ice Cube	Think About	
8.7 AC	Phase Change Calculations	Problem Set	
8.8 WU	Popping a Balloon	Think About	
8.8 AC	Specific Heat Capacity	Quiz	
8.9 WU	Calorimetry	Video	
	r	Check for	
8.9 AC	Calorimetry	Understanding	
	Calorimetry Scientific	Hands-On Scientific	
MAA	Investigation	Investigation	
MT	Module Test	Test	
Module 9: St	tates of Matter and Gas Laws		
GS	The Gas Laws	Interactivity	
9.1 WU	Scuba Diving Tanks	Think About	
9.1 AC		Hands-On Scientific	
9.1 AC	KMT Scientific Investigation	Investigation	
9.2 WU	Cooking at High Elevations	Think About	
9.2 AC	Phase Diagrams and Vapor	Quiz	
9.2 AC	Pressure Diagrams	Quiz	
9.3 WU	Gas Laws	List	
9.3 AC	Gas Properties Scientific	Virtual Scientific	
9.5 AC	Investigation	Investigation	
9.4 WU	Gas Laws – Saving Your Life	Think About	
9.4 AC	Ideal Gas Law	Problem Set	
9.5 WU	Diffusion of Gases	Discussion	
9.5 AC	Gas Velocity Scientific	Virtual Scientific	
9.3 AC	Investigation	Investigation	
9.6 WU	Dalton's Law KWL	Graphic Organizer	
9.6 AC	Dalton's Law of Partial Pressure	Problem Set	
9.7 WU	Stoichiometry Review	Interactivity	
9.7 AC	Gas Stoichiometry	Quiz	
MAA	States of Matter and Gas Laws	Collaborative	
MAA	States of Matter and Gas Laws	Presentation	
MT	Module Test	Test	
MS	Course Survey	Survey	
Module 10: S	Solutions		
GS	Solutions in Caverns	Think About	
10.1 WU	Mixture or Pure Substance?	Interactivity	
10.1.40	Observing Mixtures	Hands-On Scientific	
10.1 AC	Scientific Investigation	Investigation	
10.2 WU	Electrolytes in Sports Drinks	Think About	
10.2 AC	Build a Conductivity Meter	Device Design	
10.3 WU	Calculations Review	Interactivity	
10.3 AC	Drink Mix	Hands-On Scientific	
10.5 AC	Scientific Investigation	Investigation	
10.4 WU	Diluting Chemicals	List	
10.4 AC	Dilution	Quiz	
10.5 WU	Cooking Pasta	Think About	



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10.5 AC	Ice Cream	Hands-On Scientific		
	Scientific Investigation	Investigation		
MAA	Chemistry Magazine Cover	Magazine Cover		
MT	Module Test	Test		
Module 11: A	Acid/Bases, Neutralization, and R			
GS	Acids and Bases	Think About		
11.1 WU	The pH Scale	Interactivity		
11.1 AC	pH Scale	Virtual Scientific		
11.1 AC	Scientific Investigation	Investigation		
11.2 WU	Polyatomic Ion Review	Interactivity		
11.2 AC	Naming Acids	Graphic Organizer		
11.3 WU	Tropical Fish Tank	Think About		
11.3 AC	Neutralization Reactions	Crossword Puzzle		
11.5 AC	Crossword Puzzle	Design		
11.4 WU	Indicator Colors	Think About		
11.4 AC	Acid-Base Titration	Hands-On Scientific		
11.4 AC	Scientific Investigation	Investigation		
11.5 WU	Oxidation Numbers Review	Interactivity		
11.5 AC	Oxidation Numbers	Problem Set		
11.6 WU	Why Do Apples Turn Brown?	Think About		
11.6 AC	Redox Reactions	Problem Set		
MAA	Acids and Bases Project Design	Project Design		
MT	Module Test	Test		
Module 12:	Kinetics and Equilibrium			
	Sunglasses and			
GS	Reversible Reactions	Think About		
12.1 WU	Equilibrium and Glasses	Observation		
	Equilibrium Expressions			
12.1 AC	and Constants	Problem Set		
12.2 WU	Le Chatelier's Principal	01		
	and Glasses	Observation		
12.2 AC	Le Chatelier's Principal	Virtual Scientific		
	Scientific Investigation	Investigation		
MAA	Candy Equilibrium	Hands-On Scientific		
	Scientific Investigation	Investigation		
MT	Module Test	Test		
MS	Course Survey	Survey		
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