

Table of Contents

			PAGES
Materials List			A-K
ESP Method			L-R
Week	Unit 1	Chemistry Fundamentals	
1	Chapter 1	Intro to Chemistry	1-10
2	Chapter 2	Chemical and Physical Properties of Matter	11-22
3	Chapter 3	States of Matter	23-31
4	Chapter 4	Protons, Neutrons, and Electrons (+Unit Quiz)	32-45
	Unit 2	The Periodic Table and Atomic Interactions	
5	Chapter 5	Periodic Table and Trends	46-55
6	Chapter 6	Electron Configuration, Energy, and Light	56-64
7	Chapter 7	Ionic and Covalent Bonds	65-74
8	Chapter 8	Types of Reactions (+Unit Quiz)	75-91
9		Pre-Test + Test Chapters 1-8	92-102
	Unit 3	Chemical Reactions and Stoichiometry	
10	Chapter 9	Balancing Equations and Conservation of Mass	103-114
11	Chapter 10	Moles and Molar Mass	115-123
12	Chapter 11	Stoichiometry	124-132
13	Chapter 12	Gas Laws (+Unit Quiz)	133-148
	Unit 4	Acids, Bases, and Solutions	
14	Chapter 13	Acids and Bases	149-158
15	Chapter 14	Neutralization Reactions and Titration	159-167
16	Chapter 15	Concentration, Molarity, and Dilution	168-177
17	Chapter 16	Colligative Properties (+Unit Quiz)	178-194
18		Test Chapters 9-16	195-205
	Unit 5	Motions, Forces, and Energy Fields	
19	Chapter 17	Speed, Velocity, and Acceleration	206-216
20	Chapter 18	Newtons Laws	217-225
21	Chapter 19	Types of Forces	226-237
22	Chapter 20	Electricity and Magnetism (+Unit Quiz)	238-250

Week	Unit 6	Work, Energy, and Machines	
23	Chapter 21	Work	251-260
24	Chapter 22	Kinetic and Potential Energy	261-271
25	Chapter 23	Conservation of Energy and Energy Transfer	272-281
26	Chapter 24	Power, Efficiency, and Machines (+Unit Quiz)	282-298
27		Test Chapters 17-24	299-308
	Unit 7	Waves and Sound	
28	Chapter 25	Wave Properties	309-317
29	Chapter 26	Wave Behavior	318-326
30	Chapter 27	Sound Waves	327-335
31	Chapter 28	Applications of Sound Technology (+Unit Quiz)	336-349
	Unit 8	Light and the Electromagnetic Spectrum	
32	Chapter 29	Electromagnetic Spectrum	350-359
32	Chapter 30	Light Energy and Wave Particle Duality	360-368
34	Chapter 31	Light Behavior	369-377
35	Chapter 32	Applications of EM Technology (+Unit Quiz)	378-395
36		Test Chapters 25-32	396-405
	Glossary		406-422
	Credits		423-425