

## Suggested Experiment Order for: Alpha Omega Publications, Science Grade 11, Chemistry

Complete the MicroChem Kit experiments at or near the suggested location.

Lifepac / SOS Unit	Unit Page	SOS Assignment:	Suggested MicroChem Lab
1 - Estimate and Measurement	p. 16	10. Observation and Hypothesizing (at the end)	Intro A
	p. 21	1. Using Graphs to Analyze Data (at the end)	Intro B
2 - Elements, Compounds	p. 13	6. Creating Compounds: Investigating Chemical Changes (at the beginning)	2. Melting Point
	p. 22	6. Creating Compounds: Investigating Chemical Changes (at the end)	7. Decomposition
	p. 34	9. Identifying Different Types of Mixtures (at the end)	1. Paper Chromatography
3 - Gases, Moles	p. 11	5. Pressure-Volume Relationships in Gases (Boyle's Law) (at the end)	8. Boyle's Law
	p. 16	8. In place of: Experiment S1103B-Finding Absolute Zero Experimentally	9. Charles's Law
4 - Atomic Structure	p. 6	2. Could complete SOS Experiment S1104A-Physical Properties of Elements.	---
5 - Chemical Formulas, Bonding and Molecular Architecture	p. 4	1. Chemical Accounting: Stoichiometry (at the end)	4. Mole Ratios
	p. 20	9. Could complete SOS Experiment S1105A-Demonstrating Polar Properties.	---
6 - Chemical Reactions, Rates and Equilibrium	p. 5	2. In place of: Experiment S1106A-Observing Chemical Changes	5. Double Replacement Reactions
	p. 27	9. In place of: Experiment S1106D-Affect of Solution Concentration on Reaction Rate	15. Reaction Rate: Concentration
	P. 32	10. Factors that Affect Reaction Rate: Temperature, Catalysts, Concentration of Reactants (at the end)	16. Reaction Rate: Temperature
7 - Equilibrium Systems	p. 2	1. Chemist's Toolbox (at the beginning)	13. Molar Mass by Titration
	p. 8	4. Electrical Nature of Solutions (at the end)	3. Electrical Conductivity of Several Solutions
	p. 20	7. The Dissolving Process (at the end)	10. Solubility Product Constant
	---	Could complete SOS Experiment S1107A-Solubility Trends	---
	p. 34	Could complete SOS Experiment S1107B-Acid Strength, use the 24 well reaction plate in place of test tubes and the pre-mixed 0.1 M HCL	---
	p. 39	13. pH Scale (at the end)	11. PH and PH indicators
	p. 44	14. Titration of Acids and Bases (at the end)	12. A Microscale Titration
p. 52	17. Redox and Oxidation Potentials (at the end)	17. Galvanic Cells	
8 - Hydrocarbons	p. 19	8. Alkanes: Saturated Hydrocarbons (at the end)	Organic 1: Hydrocarbon Models
9 - Carbon Chemistry: Functional	p. 13	5. Aldehydes, Acids, and Ketones (at the end)	Organic 2: Organic Chemistry Models
	p. 26	9. Proteins and Amino Acids (at the beginning)	Organic 3: Polymer Models
	p. 32	10. In place of: Experiment S1109A-Preparation of a Polymer	Organic 4: Cross Linking of a Polymer
10 - Review	p. 62	13. Solubility Equilibrium (at the end)	14. A Buffer Solution
	p. 67	14. Neutralization (at the end)	6. Oxidation-Reduction