

Suggested Experiment Order for: Alpha Omega SOS Science Grade 9, Coordinated Physics and Chemistry

NOTE: The SOS experiments mentioned are not excessively similar and could be completed with supplies included in the MicroPhySci Kit or supplies easily available.

SOS Unit	SOS Assignment:	Suggested MicroPhySci Lab
1 - EXPLORATIONS IN PHYSICAL SCIENCE	3. <i>Experiment: Making Observations</i>	---
	5. The Metric System	1. Metric Measurements
	9. Mass and Density	2. Density
2 - THE STRUCTURE OF MATTER	2. <i>Experiment: Atomic Structure</i>	---
	13. <i>Experiment: Separating a Mixture</i>	---
3 - MATTER AND CHANGE	5. Acids and Bases	5. Acids, Bases, and Indicators
	11. Chemical Reactions and Conservation of Mass	3. Chemical Reactions
	12. Types of Chemical Reactions	4. Electrolysis of Water
	16. <i>Experiment: Half-Life</i>	---
4 - STATES OF MATTER	6. Characteristics of Liquids	12. Atomic Motion and Diffusion
	7. <i>Experiment: Viscosity</i>	---
	9. Archimedes' Principle and Flotation	11. Buoyancy
	14. <i>Experiment: Pressure in Gases</i>	---
5 - MOTION AND FORCES	5. <i>Experiment: Motion Graphs</i>	---
	9. Friction	6. Friction
	11. <i>Experiment: Propulsion</i>	---
7 - WORK AND ENERGY	2. Work	7. Work
	5. <i>Experiment: Conservation of Energy</i>	---
	8. Simple Machines; Levers	8. Levers
	10. Pulleys; Wheels and Axles	9. Pulleys
	11. Inclined Planes, Wedges, and Screws	10. Energy
	12. <i>Experiment: Inclined Planes</i>	---
8 - HEAT FLOW	4. <i>Experiment: Insulators</i>	---
9 - ELECTRICITY AND MAGNETISM	3. <i>Experiment: Electrostatic Investigations</i>	---
	5. Circuits	13. Electrical Circuits
	8. Magnetism	14. Magnetism
	10. <i>Experiment: Diverting a Magnetic Field (You could use an included magnet on end.)</i>	---
10 - WAVES	4. <i>Experiment: Changing the Speed of a Wave</i>	---
	7. Sound Vibrations	15. Sound Waves
	13. Light and the Electromagnetic Spectrum	16. Light Waves
	16. <i>Experiment: Law of Reflection</i>	---
	17. Lenses	17. Convex Lenses
11 - CHEMISTRY AND PHYSICS IN OUR WORLD	4. <i>Experiment: Water Acidity and the Environment</i>	---