

Suggested Experiment Order for: Alpha Omega Publications Grade 12 Science (Physics)

Complete the QSL Physics experiments at or near the suggested location.

Lifepac / SOS Unit	Unit Page	SOS Assignment:	Suggested QSL Physics Lab
1 - Kinematics	p. 1	1. Measuring Scalars and Vectors (Before)	Introduction A: Scientific Investigation
	p. 1	1. Measuring Scalars and Vectors (Before)	Introduction B: Scientific Analysis
	p. 9	1. Measuring Scalars and Vectors (at the end)	3. The Sum of vectors
	p. 25	11. Rate of Velocity Change (at the end)	8. Projectile Motion
	p. 30	12. Acceleration Due to Gravity	1. A Recording Timer, The acceleration of gravity
2 - Dynamics	p. 4	1. Newton's First and Second Laws (at the beginning)	2. Newton's Second Law
	p. 5	1. Newton's First and Second Laws (at the end)	9. Impulse and Momentum
	p. 26	7. In place of: Experiment S1202B-Circular Motion	14. Centripetal Force
	p. 32	9. Newton's Third Law and Conservation of Momentum	10. Conservation of Momentum
	p. 43	14. Could complete SOS Experiment S1202E-Kepler's Law	---
3 - Work and Energy	p. 2	1. Work, Kinetic, and Potential Energy (at the beginning)	4. Acceleration on an Inclined Plane
	p. 6	1. Work, Kinetic, and Potential Energy (at the end)	5. Potential and Kinetic Energy
	p. 10	4. Conservation of Energy (at the beginning)	15. A Pendulum
	p. 16	5. Power and Efficiency (at the beginning)	7. Work and Power
	p. 17	6. In place of: Experiment S1203B-Simple Machines	12. Mechanical Advantage of a Simple Machine
	p. 23	8. Heat Energy (at the end)	17. Specific Heat of Aluminum
	p. 25	10. In place of: Experiment S1203C-Latent Heat	18. Latent Heat of Fusion
4 - Introduction to Waves	p. 4	2. Could complete SOS Experiment S1204A-Wave Speeds	---
	p. 2	3. Could complete SOS Experiment S1204B-Pulses	---
	p. 33	9. Sound Waves (at the end)	16. The Speed of Sound in Air
5 - Light	p. 9	4. In place of: Experiment S1205B-Water Refraction	20. Refraction
	p. 23	6. Mirrors (at the end)	19. Reflection From Curved Mirrors
	p. 29	8. Lenses (at the end)	21. Lenses
	p. 35	10. Light Phenomena and Models of Light (at the beginning)	22. Wavelength of a Laser Beam
	p. 37	11. In place of: Experiment S1205D-Light Observations	24. Laser Measurements
6 - Static Electricity	p. 9	3. In place of: Experiment S1206A-Static Electricity	25. Static Electricity
7 - Electric Currents	p. 10	5. Resistance (at the beginning)	26. An Electronic Breadboard
	p. 14	7. Ohm's Law (at the end)	27. Ohm's Law
	p. 19	8. Circuits (at the beginning)	29. Diodes
	p. 22	8. Circuits (at the end)	28. Capacitors
8 - Magnetism	p. 3	2. In place of: Experiment S1208A-Magnetic Fields	31. Magnetic Fields
	p. 13	6. Could complete SOS Experiment S1208B-Magnetic Fields	---
	p. 17	7. Electromagnetic Induction (at the end)	32. Electric Motors
9	p. 13	4. Early Atomic Models (at the end)	23. Wavelengths of the Visible Spectrum
10	p. 3	1. Mechanics (at the end)	3. Hooke's Law, a Spring Constant (Not specifically mentioned)
	p. 7	2. Dynamics (at the end)	6. Coefficient of Friction
	p. 9	3. Energy (at the end)	11. Conservation of Energy and Momentum
	p. 34	10. Circuits (at the end)	30. Transistors