

General Physics

Version 3



Lab 1: Introduction to Science

Lab 2: General Lab Safety

Lab 3: Measurements and Uncertainty

Newtonian Mechanics:

Lab 4: 1-D Kinematics

Lab 5: 2-D Kinematics and Projectile

Motion

Lab 6: Newton's Laws

Lab 7: Circular Motion

Lab 8: Gravity

Lab 9: Conservation of Energy

Lab 10: Conservation of Momentum

Lab 11: Torque and Static Equilibrium

Lab 12: Buoyant Force and Archimedes

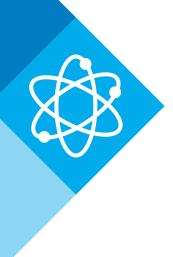
Principle

Waves:

Lab 13: Simple Harmonic Motion

Lab 14: Properties of Waves





General Physics Version 3

Heat and Thermodynamics:

Lab 15: Ideal Gas Law

Lab 16: First Law of Thermodynamics Lab 17: Second Law of Thermodynamics

and Entropy

Electricity:

Lab 18: Electric Charge and Coulomb's

Law

Lab 19: Electric Field and Potential

Lab 20: Gauss's Law

Circuits:

Lab 21: Capacitance

Lab 22: Resistivity and Ohm's Law

Lab 23: Kirchhoff's Laws

Magnetism:

Lab 24: Magnetic Forces and Fields

Lab 25: Faraday's Law

Light and Optics:

Lab 26: Snell's Law and Total Internal

Reflection

Lab 27: Interference

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and Image Formation

Appendix: Good Lab Techniques