

Section 10: Equipment and Experiments

10.01 Timekeeping and Ballistics with Pendulums

- Physics (c)(2)(F)
- Physics (c)(2)(G)

10.02 Force Measurement with Scales

- Physics (c)(2)(F)
- Physics (c)(2)(G)

10.03 Ohm's Law Demonstration

- Physics (c)(2)(F)
- Physics (c)(2)(G)

10.04 Magnetic Field Line Demonstration

- Physics (c)(2)(F)
- Physics (c)(2)(G)

10.05 Lens, Mirror, and Polarizer Optics

- Physics (c)(2)(F)
- Physics (c)(2)(G)

10.06 Ohm's Law Data Analysis in Excel

- Physics (c)(2)(F)
- Physics (c)(2)(G)

10.01

Timekeeping and Ballistics with Pendulums

In this video, we demonstrate the use of the ballistic pendulum as well as an ordinary pendulum.

10.02

Force Measurement with Scales

In this video, we demonstrate the use of scales used for measuring force.

10.03

Ohm's Law Demonstration

In this video, we demonstrate the construction of electric circuits and find empirical evidence of Ohm's Law.

10.04

Magnetic Field Line Demonstration

In this video, we demonstrate magnetism experimentally.

10.05

Lens, Mirror, and Polarizer Optics

In this video, we demonstrate the use of optical equipment, including mirrors, lenses, polarizing sheets, and lasers.

10.06

Ohm's Law Data Analysis in Excel

In this video, we demonstrate how to record and analyze experimental data using computer software.

The following table was used to organize the collected data.

Resistor	Voltage (V)	Current (mA)	Measured Resistance (Ω)
1			
2			
3			