# Electricity and Magnetism

## Electrostatics
- Electrophorus
- Electrosopes
- Kelvin's Water Dropper
- Pith Ball Electroscope
- Projection Electroscope
- Rods, Fur, and Silk with Pivot
- Triboelectric Paddles
- Van de Graaff Generator

## Electric Fields and Potential
- CRT Electron Beam Deflection with an Electric Field
- Faraday Cage with Electrosopes
- Faraday's Ice Pail
- Grass Seed Electric Field Lines
- Millikan Oil Drop
- Nonspherical Conductor
- Removable Spherical Conducting Shell

## Capacitance
- Capacitor Bang
- Capacitor Lights Bulb
- Capacitor Show and Tell
- Dissectible Leyden Jar, Dissectible Capacitor
- Force on a Dielectric
- RC Circuit Charging and Discharging
- Variable Gap Parallel Plate Capacitor

## Resistance
- Jacob's Ladder
- Resistance of Wire at Low Temperature
- Resistor Show and Tell

## Electromotive Force and Current
- Measure Internal Resistance of a Battery
- Thermoelectric Motor

## DC Circuits
- Batteries and Lamps
- Electrical Equivalent of Heat
- Galvanometer
- RC Circuits

## Magnetic Materials
- Barkhausen Effect
- Ferromagnetic Hysteresis
- Meissner Effect Levitation
- Paramagnetism of Liquid Oxygen
- Superconductor Train

## Magnetic Fields and Forces
- CRT Electron Beam Deflection with a Magnetic Field
- $e$ over $m$
- Force on a Solenoid Core
- Forces Between Current-Carrying Wires
- Magnetic Deflection of a Current-Carrying Wire
- Magnetic Field Around a Wire With a Compass
- Magnetic Field Lines for a Bar Magnet
- Magnetic Field Lines for Various Current Geometries

## Inductance
- Induction Coil Arc
- Induction Coil Lights Fluorescent Lamp
- RL Circuits

## Electromagnetic Induction
- AC Induction Lights Bulb
- Can Crusher
- DC Induction with Galvanometer
- DC Motor
- Dissectible Transformer
- Eddy Current Damped Pendulum
- Eddy Current Pipe
- Eddy Current Rolling Cylinder
- Electromagnet Spark

## AC Circuits
- LRC Circuits

## Electromagnetic Radiation
- Coaxial Cable
- Electromagnetic Wave Model
- Microwaves
- RF Dipole Radiation
- Van de Graaff Lights Fluorescent Lamp
Homopolar Generator
Jumping Ring
Magnetic Induction in Loops of Wire
Magnetic Induction Lights Bulb
Motor-Driven AC Generator
Permanent Magnet Through a Coil
Sword in the Stone