## 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
- 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

### AC Circuits
- LRC Circuits

### Electromagnetic Radiation
- Coaxial Cable
- Electromagnetic Wave Model
- Microwaves
DC Motor
Dissectible Transformer
Eddy Current Damped Pendulum
Eddy Current Pipe
Eddy Current Rolling Cylinder
Electromagnet Spark
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

RF Dipole Radiation
Van de Graaff Lights Fluorescent Lamp