

## Principles of Physics II – PHYS 2212K Lab Kit

- General Kit Instructions Booklet - 1

### LABWARE

- Alligator Clips (2 black and 2 red) - 4
- AA Batteries - 4
- AA Battery Holder - 1
- Digital Multimeter - 1
- Gloves - 1 pair
- Play-Doh® - 1
- Ruler - 1
- Scissors - 1
- Vernier Caliper - 1

### MODULES

#### Coulomb's Law

1. Styrofoam Packing Peanuts (puffs) - 2
2. Needle - 1
3. Thread - 1
4. Chopsticks - 1 pair
5. Kabob Sticks (Bamboo Skewer) - 2
6. Graph Paper - 1 Sheet

#### Static Electricity and Electric Fields

- Salt Packet - 4
- Pepper Packet - 4
- Drinking Straw - 1
- Plastic Plate - 1
- Scotch tape - 1
- Balloon - 1

#### Capacitors

- Aluminum Foil - 4 (12 in) each
- Snap Circuits Connecting Wires (1 black and 1 red) - 2
- Snap Circuits - 1

#### Circuits

- Masking Tape - 1
- Permanent Marker - 1

- Aluminum Foil - 4 (12 in) each
- 1k $\Omega$  Snap Circuits Resistor - 1

### **Factors Affecting Electrical Resistance**

- Aluminum Foil - 12 in

### **Magnetic Field**

- Bar Magnet - 1
- Small Paper Clips (placed in a plastic bag) - 10
- Digital Scales - 1
- Iron Filings - 20 g
- Compass - 2

### **Electromagnetic Induction**

- Ceramic Ring Magnets - 4
- Insulated Copper Wire - 90 cm
- 20 ml Syringe with Cap - 1
- Tape Measure - 1

### **Optics Lab**

- Mirror Support - 2
- Plane Mirror - 1
- Steel Bolts - 2
- Concave mirror - 1
- Convex mirror - 1
- Concave lens - 1
- Convex lens - 1