# Electrical Potpourri

## Station 1

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>van de Graf generator</td>
</tr>
<tr>
<td>2</td>
<td>charge spheres</td>
</tr>
<tr>
<td>1</td>
<td>mirror on wooden stand</td>
</tr>
<tr>
<td>1</td>
<td>flashlight</td>
</tr>
<tr>
<td>1</td>
<td>string wig</td>
</tr>
<tr>
<td>1</td>
<td>comb</td>
</tr>
<tr>
<td>1</td>
<td>ring stand</td>
</tr>
<tr>
<td>2</td>
<td>ring stand clamps</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>three-pronged clamp</td>
</tr>
<tr>
<td></td>
<td>sticky wax</td>
</tr>
<tr>
<td>1</td>
<td>needle</td>
</tr>
<tr>
<td></td>
<td>incense</td>
</tr>
<tr>
<td>1</td>
<td>florescent bulb</td>
</tr>
<tr>
<td></td>
<td>matches</td>
</tr>
</tbody>
</table>

## Complete Setup
Individual Items

Van de Graf generator

Metal spheres and grounding wire

Ashtray, matches, incense

Sticky wax and needle

Comb, string wig

Ring stand with fluorescent bulb
Station 2

1 electroscope
1 can
1 electrophorus
1 variable capacitor
1 animal fur
1 rubber rod
1 silk cloth
1 glass rod
1 foil ball on a string

Complete Setup
Individual Items

Metal can with foil on a string

Electroscope

Electrophorus

Animal fur

Rubber rod

Glass rod
Variable capacitor
Station 3

1 car battery
1 battery charger
1 momentary switch
1 high power resistor
2 compasses
1 U-shaped magnet with wooden stand
5 long banana leads
1 copper conductor on a wooden stand

Complete Setup
Individual Items

- Car battery
- Battery charger
- Banana leads
- High power resistor
- Momentary switch
- Magnet with wooden stand
Copper conductor on a wooden stand

Warning signs

Discontinue the wire from the battery as soon as possible to prevent the insulation on the wire from melting.

Do NOT wear mechanical watches near this magnet.

Compasses
Station 4

- 1 wire coil on a wooden stand
- 1 galvanometer
- 2 banana leads
- 1 bar magnet
- 1 hand generator with bulb

Complete Setup
Station 5

1 microwave transmitter
1 microwave receiver
2 polarizers
2 reflecting plates
1 foamcore
Individual Items

Microwave transmitter

Microwave receiver

Polarizing plate

Reflecting plates

Foamcore
Station 6

1 electromagnet
1 power supply
  slotted and solid rings
1 aluminum saw
1 plastic chute
1 coil of wire/bulb
Individual Items

Electromagnet

Electromagnet power supply

Plastic chute

Aluminum rings and slotted rings

Aluminum saw

Wire coil with bulb