Lab 1: Electrostatic Charging

**Objective:**
- To understand the principles of electrostatic charging.

**Equipment:**
- Testing cap.
- 10 Hz frequency.
- Charge vs. time.

**Procedure:**
1. **Conduction:**
   - Net charge.
   - Charge distribution.
2. **Induction:**
   - Net negative charge.
   - Charge transfer.
3. **Neutralization:**
   - Charge distribution.
   - Charge balance.

**Analysis:**
- Charge distribution.
- Charge conservation.

**Conclusion:**
- Electrostatic effects on charge distribution.

**Summary:**
- Electrostatic charging through conduction and induction.

**References:**
- Lab notebook.
- Textbook references.

**Notes:**
- Always ground the system.
- Safety precautions.

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**Lab Setup:**
- Course name: Physics 2
- Instructor: [Instructor Name]
- Lab number: [Lab Number]
- Date: May 19, 2014

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**Diagram:**
- Diagram of electrostatic charging setups.
- Graphs showing charge distribution over time.

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**Conclusion:**
- Electrostatic charging principles.
- Charge conservation.

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**Report:**
- Data analysis.
- Conclusion.

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**Figures:**
- Fig. 1: Induction with W. E. P.
- Fig. 2: Conducting, Fig. 3: Induction wire, B.C.P.