

PHY

# Charging Techniques

Name: \_\_\_\_\_

1. You are to instruct Mr. Killorn on how to charge the electroscope using different methods. You are to list the appropriate steps in the appropriate order.

- A Rub the ebonite rod with fur.
- B Rub the acrylic rod with wool.
- C Hold the ebonite rod close to but not touching the knob of the electroscope.
- D Hold the acrylic rod close to but not touching the knob of the electroscope.
- E Touch the knob of the electroscope with your finger.
- F Touch the ebonite rod to the knob of the electroscope.
- G Touch the acrylic rod to the knob of the electroscope.
- H Remove the rod.
- I Remove your finger.

**In each case, when you start, the electroscope is to be considered neutral.**

Mr. Killorn does not need to neutralize the electroscope.

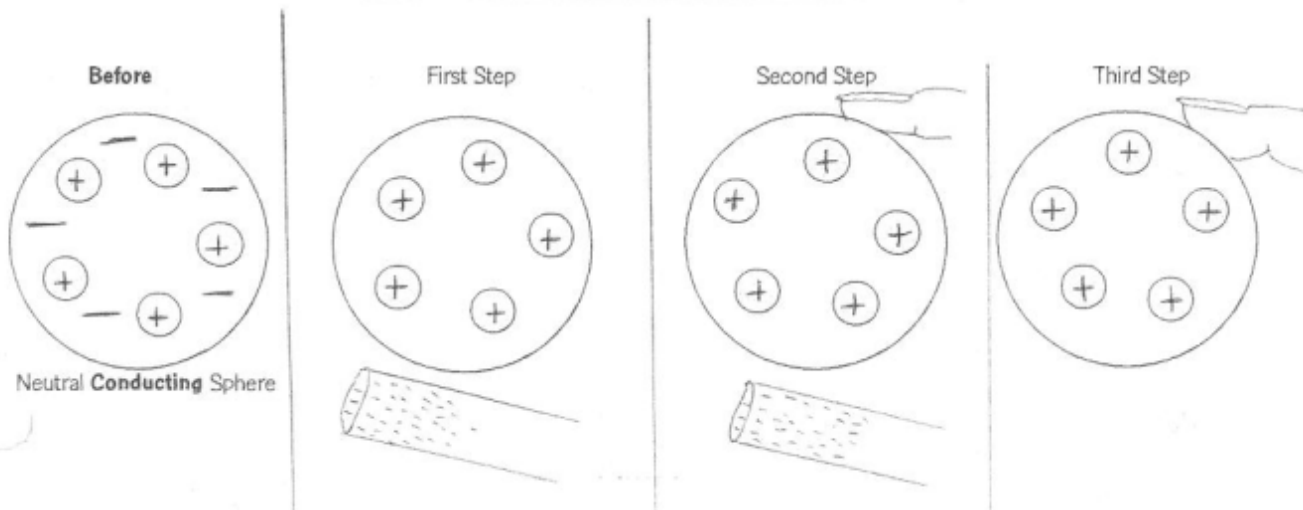
Just write the letters in order in the vertical columns. Not all lines will be used in each column.

Charge the electroscope by contact giving it a positive charge.	Charge the electroscope by induction giving it a positive charge.	Charge the electroscope by induction giving it a negative charge.	Charge the electroscope by contact giving it a negative charge.

2. Complete the drawings below.

The symbol  represents \_\_\_\_\_.

The symbol  represents \_\_\_\_\_.



3. The following table is only partially filled in. You are to complete the table in the same style.

It is explaining the process of charging by induction. You want to give a neutral electroscope a negative charge.

	The step-by-step play only.	The reason behind the step.
1.	_____	Electrons will move from the _____ to the _____. This gives the _____ a positive charge and the _____ a negative charge.
2.	_____	This causes induced charge separation to occur. The free valence electrons in the electroscope will move _____. The top of the electroscope will have a _____ charge while the bottom of the electroscope will have a _____ charge.
3.	Touch the _____ of the electroscope with _____.	This allows the free valence electrons to move from _____ to _____. This give the electroscope a _____ charge.
4.	Remove _____.	This _____
5.	_____	_____

Attachments

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balloons\_en.jar

travoltage\_en.jar