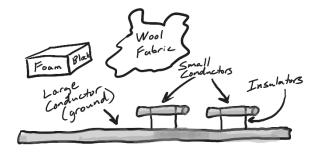
Unit 2: Electricity Notes, part 2: Conductors & Insulators, and Charging by Induction	
Conductors and Insulators	
1.	allow electrons to easily move through them. List some examples.
2.	do not allow electrons to move through them. List some examples.
3.	Protons (can/cannot) flow through solid conductors. Why not?
4.	<b>Ground</b> : a large, neutral source of charge (like the Earth). The ground can serve two purposes
	"The ground" can
	"The ground" can
5.	What happens to an object when the object is "grounded?"
6.	What other objects, other than the Earth, could be used to ground something?

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

Physics 100

## **Charging By Induction:**

Show two unique methods of charging the small conductors using the materials in the diagram, but without touching the styrofoam or wool to the conductors. This is called "charging by induction" to distinguish it from the other method of



charging we have seen - charging by rubbing things together. Explain what is happening during your steps. Assume that everything has a neutral net charge in the beginning.

**Method 1:** Giving the small conductors opposite charges, without grounding.

Method 2: Charging one conductor at a time, using grounding.