Use with textbook pages 248-254.

Static charge detective

Use the following diagram to answer the questions.

tendency to lose electrons	tendency to gain electrons
glass human hair wool cat's fur silk	cotton paper balloon vinyl plastic rubber
 When two objects are rubbed together the material closer to the left of the series will have a greater tendency to lose electrons and become positive 	• the material closer to the right of the series will have a greater tendency to gain electrons and become negative
 As you take your clothes out of the dryer, your wool socks are clinging to your silk skirt. What is the charge on the wool socks and on the silk skirt? 	2. You use a plastic comb to comb your hair. What is the charge on your hair and on the comb?
Charge on socks	Charge on comb
Charge on skirt	Charge on hair
3. You use a paper towel to rub off some dirt on a glass window. What is the charge on the glass and on the paper towel?	4. You rub a balloon along your cat's back, causing the cat's fur to stand up. What is the charge on the balloon and on the cat's fur?
	and the second s
Charge on window	Charge on balloon
Charge on paper towel	Charge on cat's fur

Date

Section 7.1

Use with textbook pages 248-254.

Conductors and insulators

Define and identify conductors and insulators as directed below.

(b) insulator

1. Define the following terms.



2. On the first line, indicate whether the object is a conductor or an insulator. On the second line, state whether or not the material allows electrons to move freely.

