Date: _____

Activity – Charging by Contact

Purpose:

To determine what kind of charge is transferred when a charged object contacts an uncharged one.

Background:

Use your text on pg. 407 to explain what charging by contact is. Put your answer in the space provided.

Charging by co	ntact:
Materials:	pith-ball electroscope vinyl strip (opaque) acetate strip (clear) paper towel

Procedure: Refer to the overhead for the steps to follow.

Observations:

Step	Procedure	Observations
1	Negatively charged vinyl brought near uncharged pith ball.	
2	Positively charged acetate brought near uncharged pith ball.	
3	Negatively charged vinyl contacts pith ball, is removed and brought near pith ball again.	
	Positively charged acetate brought near same pith ball.	
4	Positively charged acetate contacts pitch ball, is removed and brought near pith ball again.	
	Negatively charged vinyl brought near same pith ball.	

Analysis:

1. What happens when a charged object is placed near, but does not touch, the neutral pith-ball electroscope?

- 2. What can you infer about the transfer of electric charge when the pith ball is touched by:
 - (a) A negatively charged object

(b) A positively charged object

3. Use diagrams to help illustrate your observations in steps 3 and 4.