

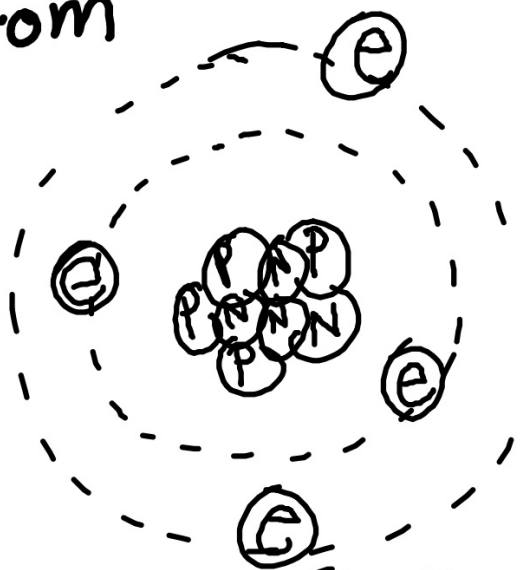
## Bellwork 5/12

Describe an experience when you observed static electricity.

## Pun of the Day

Learning about electricity  
gets me all **CHARGED**  
up!

Atom



- Nucleus is  $\oplus$
- Electron cloud  $\ominus$
- Whole atom is neutral

P: proton  $\oplus$

N: neutron

e: electron  $\ominus$

} difficult to separate

} easier to add remove

## Charges

- Like (same) charges repel

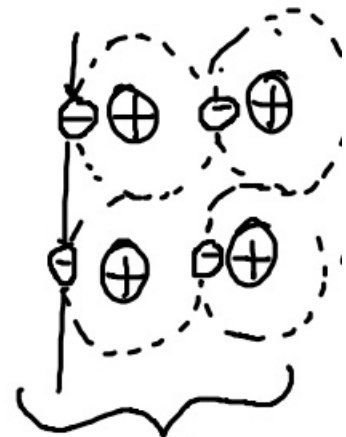
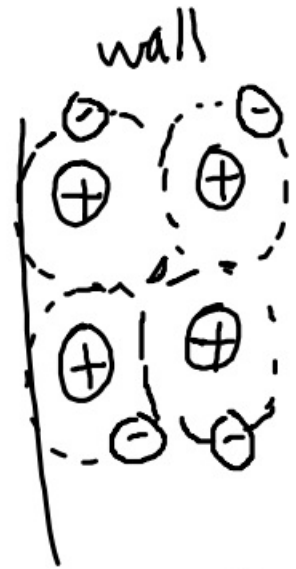
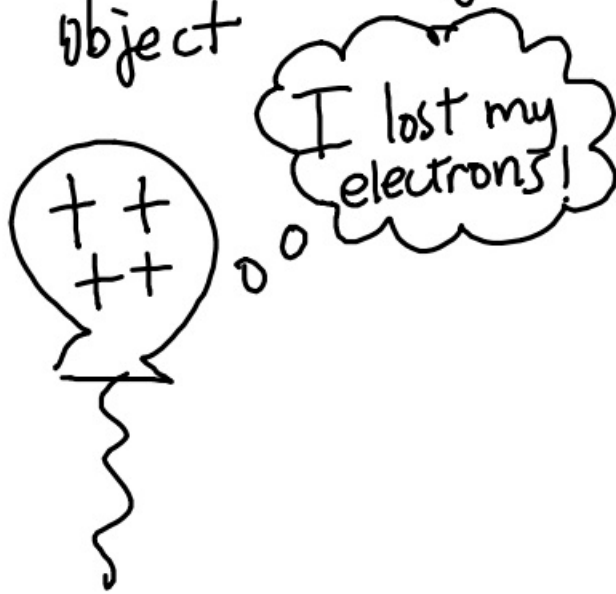


- Opposite charges attract



- Objects become charged when they gain or lose electrons

What happens when a  $\oplus$  object is brought near a neutral object



## Polarization

When charges in a neutral object move to create a positive charge on one side and a negative charge on the other side

electrons are lined up on one side of each atom