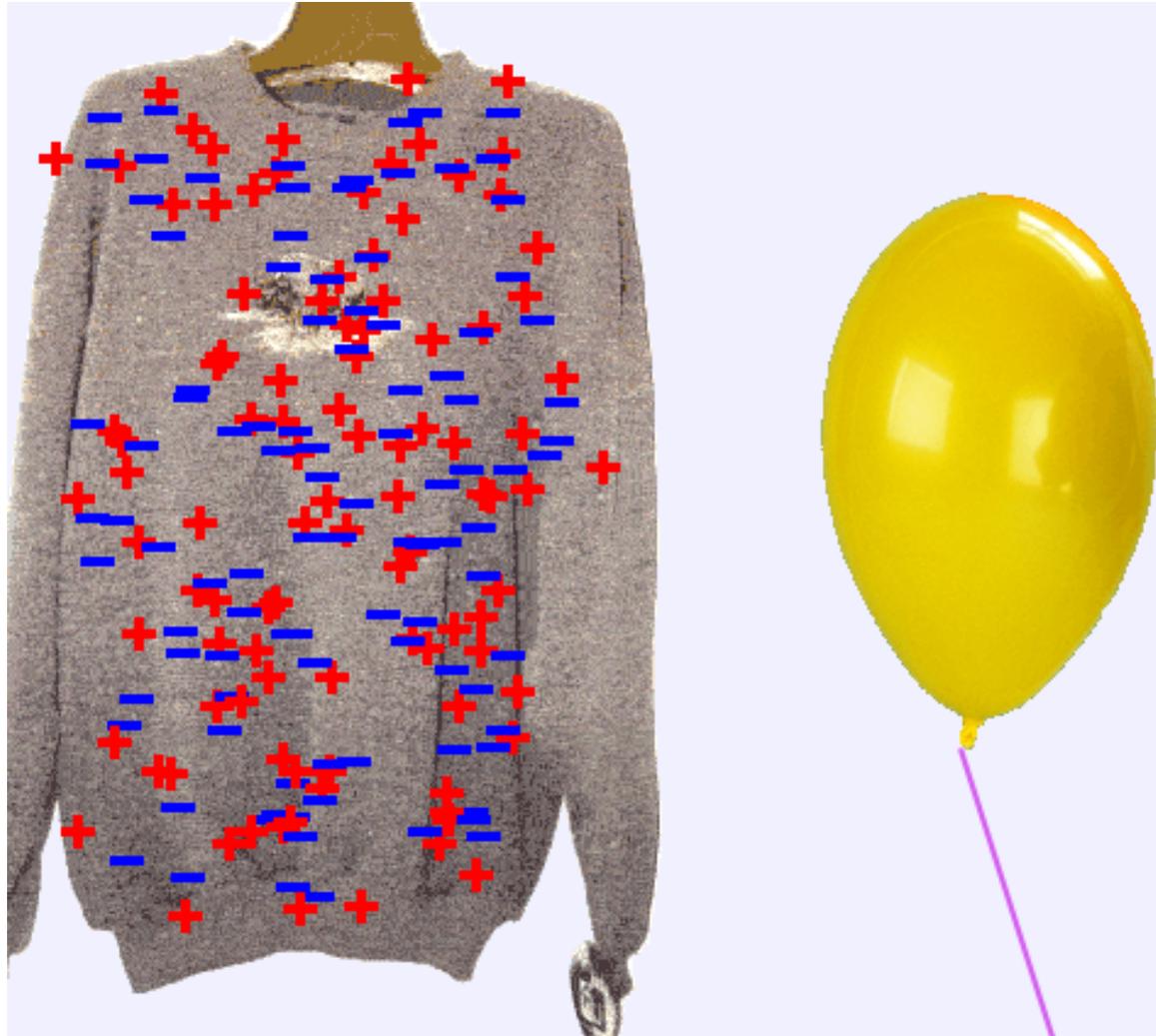


# *Concept Questions for Balloons and Static Electricity and John Travoltage*

<http://www.colorado.edu/physics/phet>

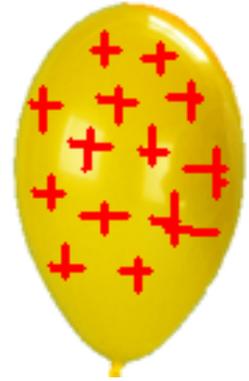
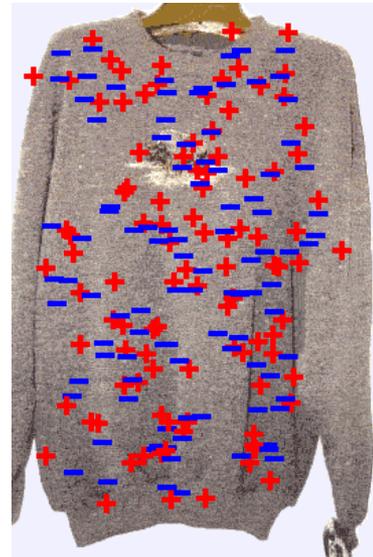
Learning Goals: Students will be able to describe and draw models for common static electricity concepts. (transfer of charge, induction, attraction, repulsion, and grounding)

**1. When the balloon is rubbed on the sweater, what might happen?**

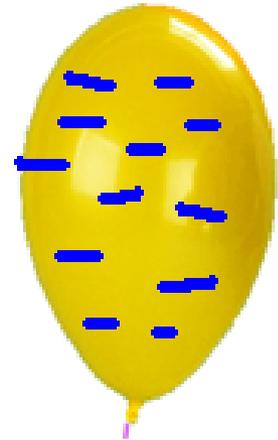
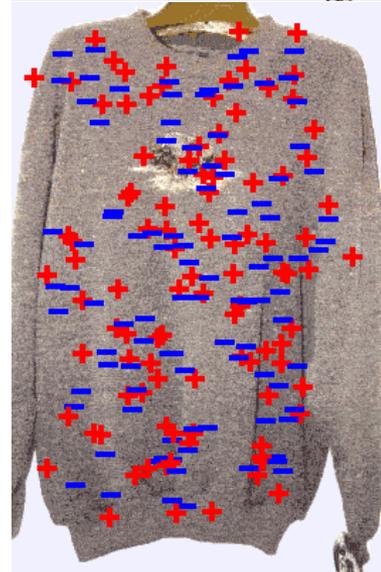


1. When the balloon is rubbed on the sweater, what might happen?

A. Some positive charges in the sweater will move onto the balloon

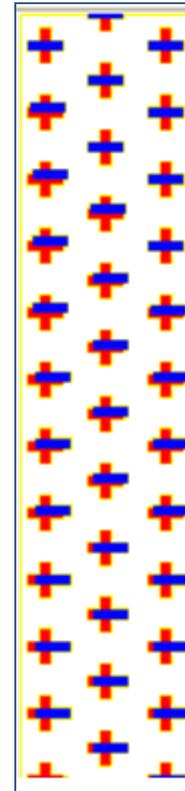
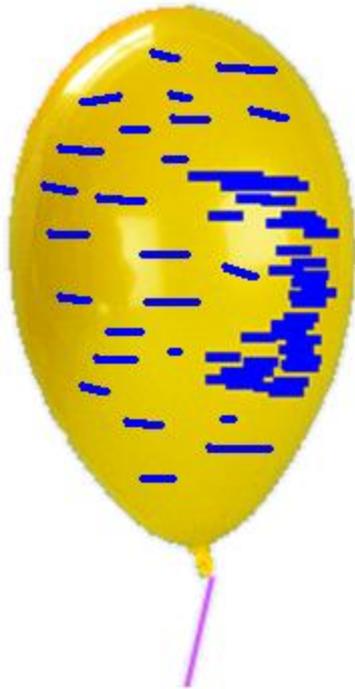


B. Some negative charges in the sweater will move onto the balloon



**2. What do you think will happen when the balloon is moved closer to the wall?**

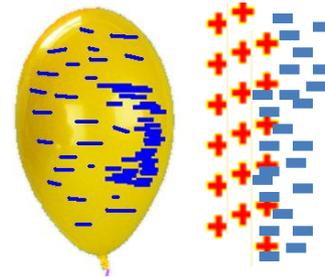
**Negatively  
charged  
balloon**



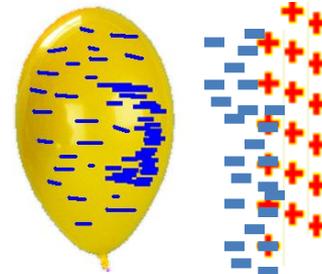
**Neutral wall**

2. What do you think will happen when the balloon is moved closer to the wall?

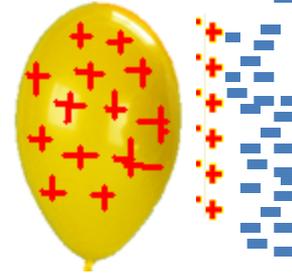
A. Some positive charges in the wall will move towards the balloon



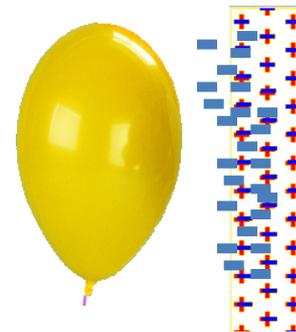
B. Some negative charges in the wall will move towards the balloon



C. Some positive charges in the wall will go onto the balloon

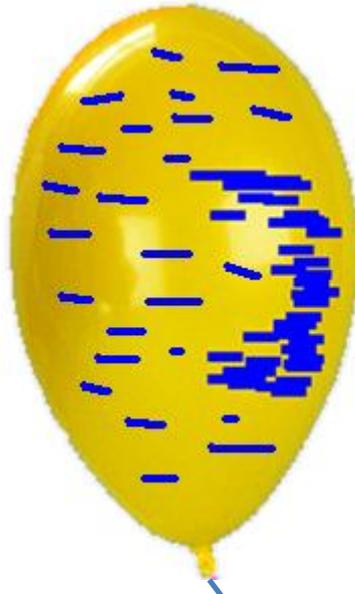


D. Some negative charges on the balloon will go to the wall

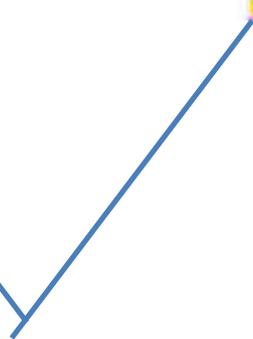
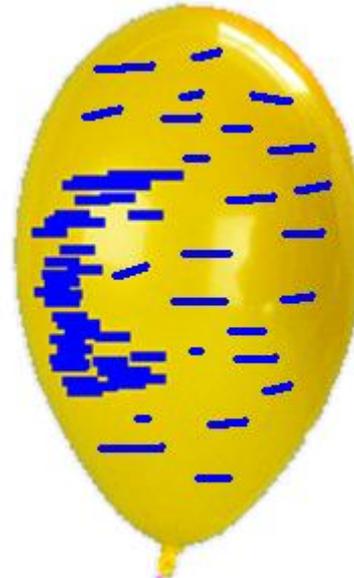


### 3. What do you think the balloons will do?

**Negatively  
charged  
balloon**



**Negatively  
charged  
balloon**

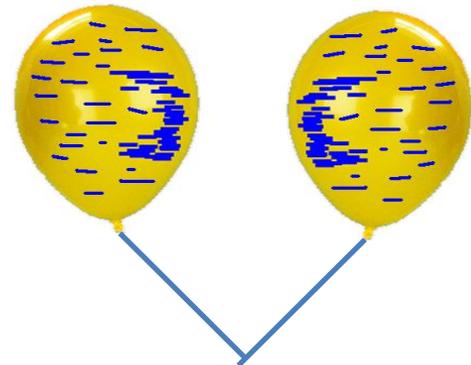
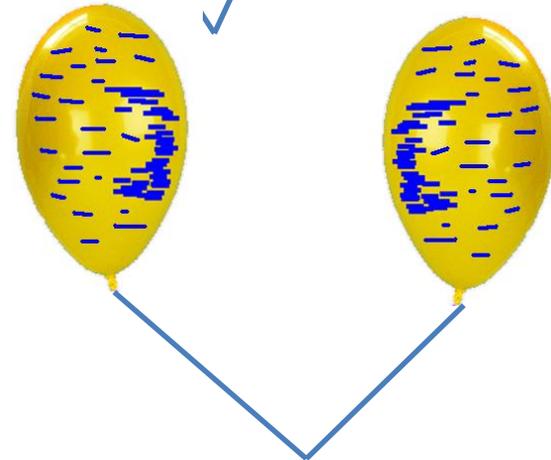
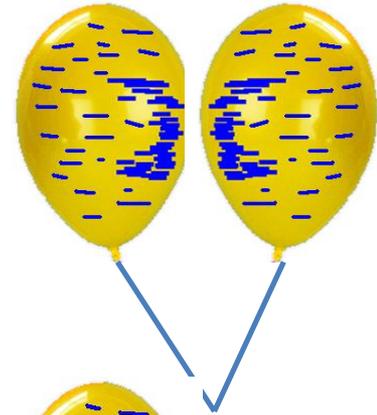


**3. What do you think the balloons will do?**

**A. The balloons will move towards each other**

**B. The balloons will move away from each other**

**C. The balloons will not move.**

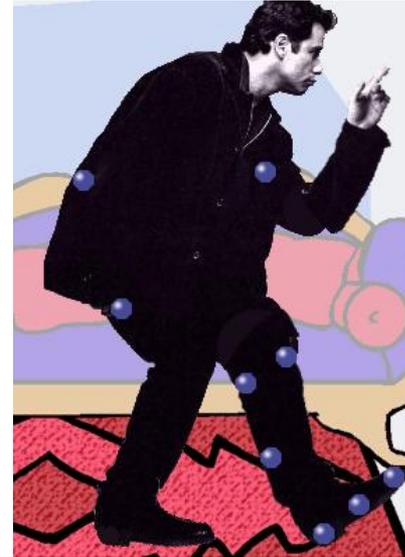


4. What might happen to the charge on the man when he touches the door knob?



**4. What might happen to the charge on the man when he touches the door knob?**

**A. Most electrons will go into the knob and down to the earth.**



**B. Some electrons will go from the earth through the knob and into the man.**

