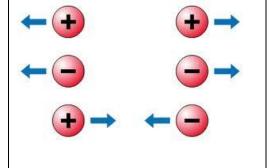
## The Law of Electric Charges: Coulomb's Law

A charged object exerts an electric force that can be attractive or repulsive.

- Like charges \_\_\_\_\_\_ each other
- Opposites \_\_\_\_\_

The strength of the force is related to the amount of charge on and the distance between the objects.



**pHet simulation**: We will use the Balloon pHet to help us answer these questions:

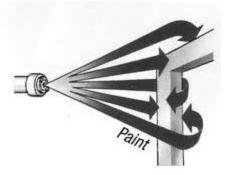
1. How do we get a charge?

Both are neutral (no charge) Now sweater is and balloon is					
We are charging by Why is the balloon now attracted to the sweater?					
2. Charge up the balloon. Charge up a 2 <sup>nd</sup> balloon. Bring the 2 balloons close together. What happens? Why?					

3. Look at 1 charged balloon. What is its overall charge?	
Does it have only electrons?	
Why is it 'negatively charged' if it has positive protons?	

## **Using Static Charges**

Label the diagram. Use your text pg. 470



Electrostatic painting is better than regular painting. Why?

Reason #1 _	 	 	
Reason #2_	 	 	

Classwork: Define static electricity: (Find it in text section 11.1)

Answer # 3, 4, 5, 6 on lined paper. You may draw diagrams if that helps.