

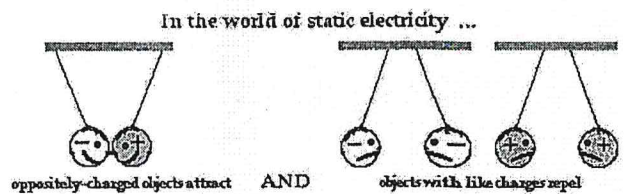
Static Electricity

Static Electricity Definition

Electric Force: _____

Electric Charges

- Protons:
- Electrons:



Charging Objects

- Neutral Objects:
- Negative Charged Objects:
- Positive Charged Objects:

Law of Electric Charges

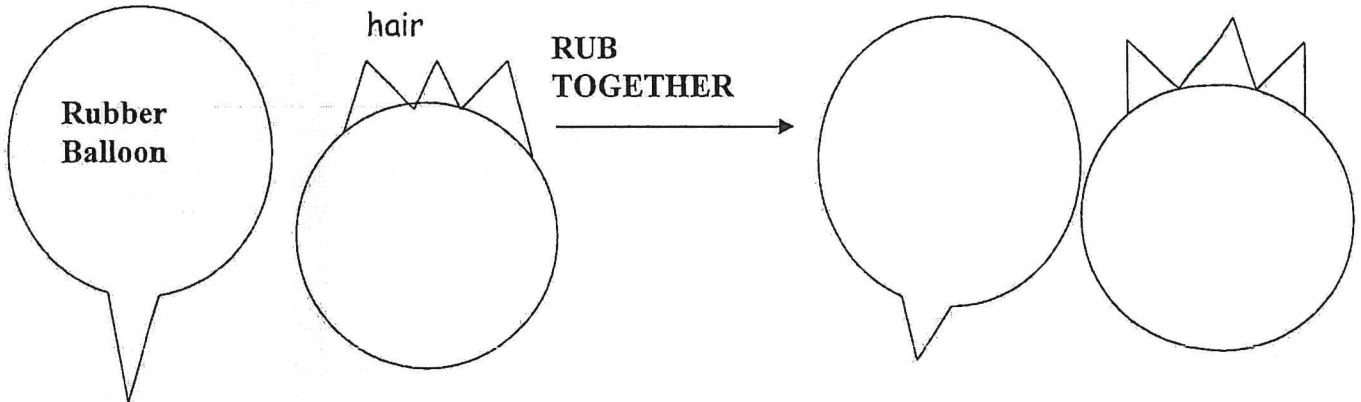
1.

2.

3.

Charging by Friction

Where do charges come from?



Electrostatic Series List

This list tells us which substances lose their electrons and which substances take electrons.

	Acetate	
	Glass	
	Wool	
	Fur, hair	
	Silk	
	Aluminum	
	Cotton	
	Ebonite	
	polyethylene (plastic)	
	Carbon, copper, nickel	
	Rubber	
	Gold	

Your Turn:

Indicate which object will receive a positive charge and which object will receive a negative charge by looking at their positions on the electrostatic series chart.

- | | | |
|---------------------------------------|-----------------------|----------|
| | + | - |
| 1. polyethylene (plastic) comb + wool | <u>RUB TOGETHER</u> → | |
| 2. acetate + gold | → | |
| 3. ebonite rod + fur | → | |

Which of the following pairs will have the greatest transfer of charge? Explain.