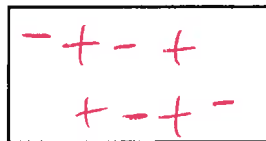
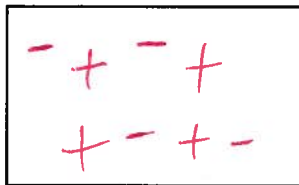


Name: _____

Date: _____

SNC 1D- Electrostatic Series Worksheet

1. Draw charges on each of the following objects so they are neutral. Complete the blanks below about what would happen when these materials are rubbed together.



Object 1: Glass Beaker

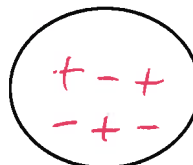
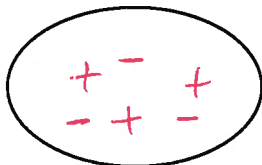
Object 2: Polyester cloth

Material with stronger hold on electrons: Polyester

****show which direction the electrons will move using arrows from one object to the other****

Final Charge on Object 1: + Final Charge on Object 2: -

2. Draw charges on each of the following objects so they are neutral. Complete the blanks below about what would happen when these materials are rubbed together.



Object 1: Ebonite Rod

Object 2: Wool

Material with stronger hold on electrons: Ebonite

****show which direction the electrons will move using arrows from one object to the other****

Final Charge on Object 1: - Final Charge on Object 2: +

3. Draw a T-shirt and a balloon that are both neutral in the space below. Complete the blanks below about what would happen when these materials are rubbed together.



Object 1: T-shirt (cotton)

Object 2: Rubber Balloon

Material with stronger hold on electrons: Rubber balloon

****show which direction the electrons will move using arrows from one object to the other****

Final Charge on Object 1: + Final Charge on Object 2: -

4. Draw a plastic grocery bag and a piece of fur that are both neutral in the space below. Complete the blanks below about what would happen when these materials are rubbed together.



Object 1: Plastic Grocery Bag

Object 2: Piece of Fur

Material with stronger hold on electrons: plastic

****show which direction the electrons will move using arrows from one object to the other****

Final Charge on Object 1: - Final Charge on Object 2: +

5. Complete the blanks for the following two materials being rubbed together.

Object 1: Cotton

Object 2: Silk

Material with stronger hold on electrons: Cotton

Final Charge on Object 1: - Final Charge on Object 2: +

6. Complete the blanks for the following two materials being rubbed together.

Object 1: Human Hair

Object 2: Cotton

Material with stronger hold on electrons: Cotton

Final Charge on Object 1: + Final Charge on Object 2: -

7. Complete the blanks for the following two materials being rubbed together.

Object 1: Ebonite Rod

Object 2: Nylon

Material with stronger hold on electrons: Ebonite

Final Charge on Object 1: - Final Charge on Object 2: +

8. Complete the blanks for the following two materials being rubbed together.

Object 1: Foam

Object 2: Glass → very weak hold

Material with stronger hold on electrons: Foam

Final Charge on Object 1: - Final Charge on Object 2: +

9. Why does your hair start to stand up after you pull a wool sweater over your head?

Hair steals electrons from wool, becomes negatively charged. Hairs repel.