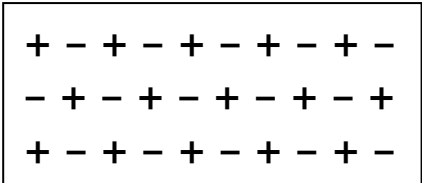


Name: _____ Date: _____ Block: _____

Static Electricity Questions (Probe pg 250-254)

1. All matter is made of _____. At the center of the atom is the _____ which contains _____ and _____.
2. Protons have a _____ charge and electrons have a _____ charge. Only _____ move in solid materials so _____.
3. If electrons are removed from an object, the object will have an overall _____ charge. If electrons are added to an object, the object will have an overall _____ charge.
4. Friction occurs when _____

Use the following diagram to answer questions 5-7. Use (-) to represent negative charges and (+) to represent positive charges.



5. The diagram represents a neutral solid object. What is the relationship between the number of positive and negative charges in a neutral object?

6. When the above neutral object is rubbed with a silk cloth, it becomes positively charged.
 - a. Draw a new diagram that represents the object with a positive charge.

b. What could this object be? Use the Electrostatic Series to list 3 possibilities.

7. When the neutral object is rubbed with a different materials, it becomes negatively charged. Draw a new diagram that represents the object with a positive charge.

8. An insulator is any material that _____

9. A conductor is any material that _____

10. List some applications of static electricity.

11.a) What are some of the situations where we need to be aware of the dangers of static electricity?

b) What safety measures do we use to protect ourselves?

BONUS!!!! Read page 256 and answer questions #1-2 on page 256.