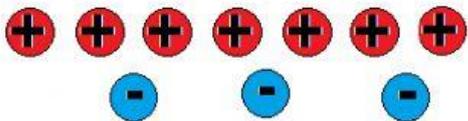


NAME: _____ DATE: _____

STATIC ELECTRICITY WORKSHEET

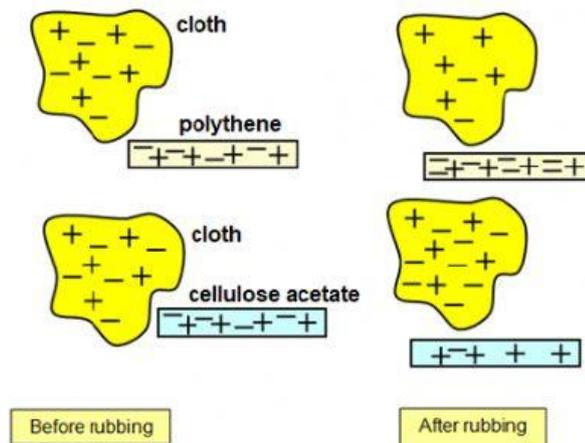
1. Atoms are made up of _____, _____ and _____.
2. Atoms are generally neutral because their _____ are _____ as their protons.
3. An object becomes negatively charged by _____.
4. An object becomes positively charged by _____.
5. After being rubbed with a cloth, a nylon rod has the following charge:



The nylon rod is _____ charged with a charge of _____.

6. The Van de Graaff generator is a _____ used to generate an _____ charge which can be used to perform various activities.
7. To generate the charge, the wheel is turned smoothly to cause a moving belt to store up _____ charge on a hollow metal globe at the _____ of an insulated column.

8. Answer the following questions based on the diagram below.



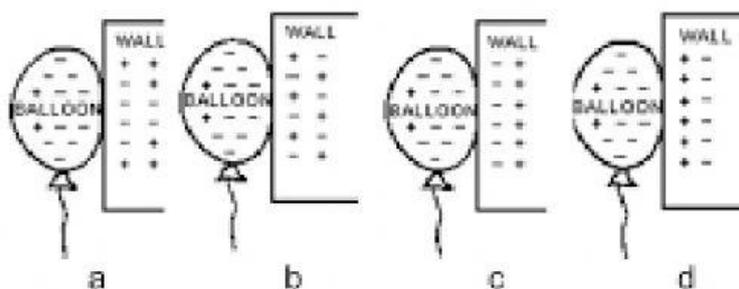
a. Before rubbing

- i. the cloth was _____.
- ii. the polythene rod was _____.
- iii. the cellulose acetate rod _____.

b. After rubbing

- i. the cloth became _____ charged as the polythene rod became _____ charged.
- ii. the cloth became _____ charged as the cellulose acetate rod became _____ charged.
- iii. Which material do you think had the greater effect on the cloth?
 _____ Give reason for your answer.

9. An inflated balloon which has been rubbed against a person's hair is touched to a neutral wall and remains attracted to it. Which diagram below best represents the charge distribution on the balloon and the wall?



10. Complete the following table comparing magnetism to static electricity.

MAGNETISM	STATIC ELECTRICITY