

Science 9 – Electricity

Chapter 9 Review

Name: _____

1. What is a static charge?
2. What does it mean if a static charge is discharged?
3. What happens when two like (same) charges are brought close?
4. What happens when two unlike (different) charges are brought close?
5. State the Law of Electric Charges.
6. Which part of the atom moves to create an electric charge?
7. Why can protons not move in an atom?
8. How does an object gain a positive charge?
9. How does an object gain a negative charge?

Look at the electrostatic series on page 276 to answer the following questions:

10. If paper is rubbed on vinyl, what charge will the vinyl get?

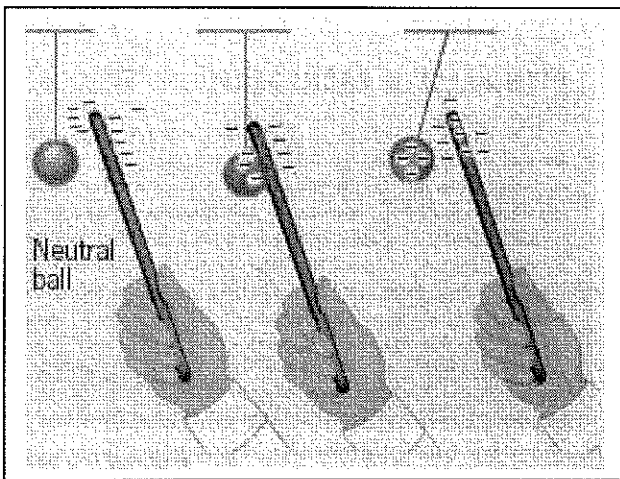
11. In which direction will the electrons move in question #10?

12. If silk is rubbed on acetate, what charge will the acetate get?

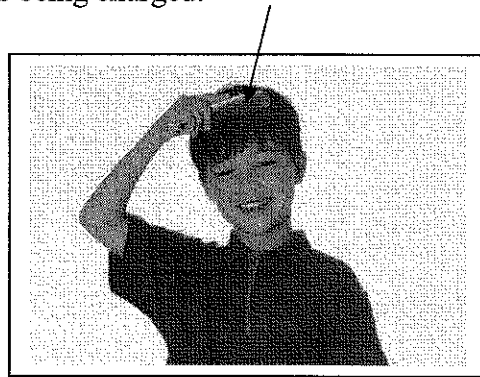
13. In which direction will the electrons move in question #12?

14. Why can a charged object attract a neutral object?

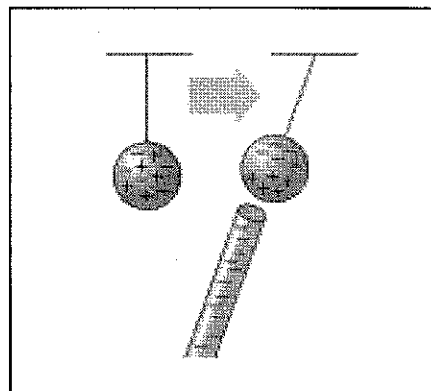
Label the drawing below to show how each object is being charged:



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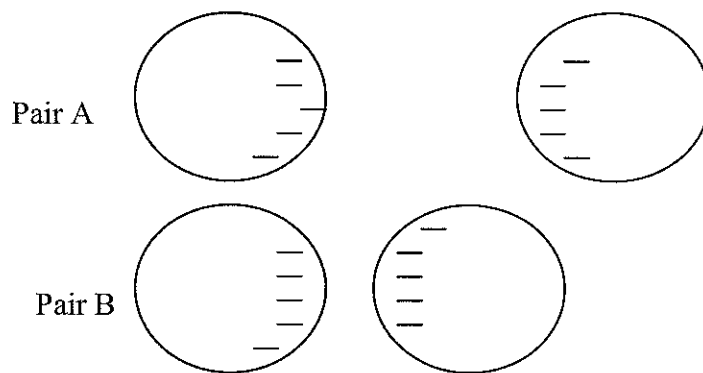


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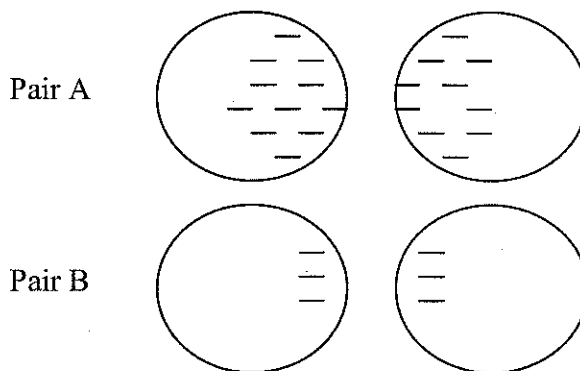
17 _____

25. Which pair of charged objects will have the stronger electric force?



26. Which part of Coulomb's law does the image in question #25 demonstrate?

27. Which pair of charged objects will have the stronger electric force?



28. Which part of Coulomb's law does the image in question #27 demonstrate?