Static Electricity Study Guide

1. In your own words define Static Charge
2. What are the three points of the Law of Electrical Charges?
3. Explain how you can determine whether a pith ball has been charged negative or positive.
4. Explain how a charged balloon can adhere to a neutral wall.
5. Name and describe three ways objects can be charged and give an example of each.
6. What can we tell from the electrostatic series?
7. Give two examples each of conductors and insulators.
8. Why do you think wood is a poor conductor of electric charge?
9. Explain why your hair sometimes flies up after lots of combing.
10. What is an electroscope?
11. What happens to the leaves of an electroscope when a charged vinyl strip is brought near the ball? Explain what happens to the charges.
12. Explain why clothes from the dryer stick together but clothes drying on the line do not.
13. What is a Van de Graaf generator?
14. What is Coulomb’s Law?
15. What’s the difference between a lightning rod and a Faraday Cage?
16. In your own words, state Coulomb’s Law.
17. Name four uses of static charge. Explain how each of them work.