

Name: _____

Date: _____

Lab: Induction and Conduction

Learning Goals

I can explain how an object is charged by induction and conduction.

Materials

Laptop computer, <https://bit.ly/2k4DLHA>

Discussion

Answer the discussion questions on a separate piece of paper.

1. What is everything made of?
2. Which particles are held tight in the nucleus?
3. Which particles can move around?
4. What does it mean when a rod is charged positively?
5. What is an electroscope?
6. What does it mean when an object is neutral?
7. Draw a picture of how the electrons move when a positively charged rod is brought near an electroscope.
8. Draw a picture of an electroscope after a positive rod touches it.
9. On the "You Try It" draw what #5 looks like.
10. Do the "Charging by Conduction" and use the negative rod.
11. Draw a picture of how the electrons move when a negatively charged rod is brought near an electroscope.
12. On the "You Try It" draw what #5 looks like.
13. Do "Charging by Induction" and choose "Charging positively".
14. What charge is on the rod?
15. What direction are the electrons going when the ground wire is attached?
16. Which is removed first the ground wire or the negative rod? What would happen if it was done in the other order?
17. On the "You Try It" draw what #5 looks like.
18. Do "Charging by Induction" and choose "Charging negatively".
19. What charge is on the rod?
20. What direction are the electrons going when the ground wire is attached?
21. On the "You Try It" draw what #5 looks like.
22. Do the quiz.