

Chapter 9 Review

1. What are the charges on protons and electrons?
2. What do those charges cause protons and electrons to do when they are near each other?
3. What causes static cling?
4. Why does plastic wrap stick?
5. What kind of charges repel each other? Attract each other?
6. What is static electricity?
7. What does a static discharge do to the charge of the objects involved?
8. What are the three ways electrons can be transferred? Define each.
9. Why does humidity affect the build up of static charges?
10. What does an electroscope do?
11. What is potential energy?
12. What is potential difference?
13. What is electrical potential?
14. What does potential difference (voltage) cause current to do?
15. What is the path of least resistance?

16. What are five ways to decrease resistance?

17. What is Ohm's Law?
18. What is the formula for Ohm's Law?
19. If an 18-volt battery is connected to a light and the current is 0.6 amps, what is the resistance?
20. What is the difference between a series and a parallel circuit?

21. What happens in each type of circuit if a light burns out?

22. What happens in each type of circuit if you add more light bulbs?

23. What is a short circuit?
24. What do fuses and circuit breakers do?
25. What is the difference between fuses and circuit breakers?

26. What is the third prong? What does it do?

27. What is a lightning rod? What does it do?

28. How much current is dangerous to humans?
29. How does being wet lower your electrical resistance?