

## Chapter 10 Review

1. What is the energy associated with electric currents?
2. What is the energy an object has due to its movement?
3. What does a galvanometer use loops of wire to move?
4. What makes a loop of wire spin continuously?
5. Besides wire, what are the three main parts of an electric motor and what does each do?
  
6. What energy conversion takes place in an electric motor?
7. What type of current is produced by electromagnetic induction?
8. What are the two ways to induce a current with a magnet and a wire?
9. What are the two types of current? Describe each.
10. What is an electric motor the opposite of and why?
11. What is a turbine?
12. How is a turbine used to generate electricity?
13. What energy resources are used to generate electricity? Describe each.
14. What is the formula for Power?
15. What is the formula for Energy?
16. How many watts are in a kilowatt?

17. A hair dryer has a power rating of 1200 watts and uses a standard voltage of 120 volts. What is the current through the hair dryer?
18. What are the two types of transformers? Describe each.
19. What are the two coils on a transformer called?
20. Which coil has current induced in it?
21. Why are transformers used in transmitting electricity long distances? Describe the steps in the process.
22. What type of current did Edison's first power plant supply?
23. Who designed an alternating current distribution system that replaced Edison's direct current system and is still used today?
24. Which type of current does a battery produce?
25. What is the difference between an electrochemical cell and a battery?
26. What connects an electrochemical cell to a circuit?
27. What determines the voltage of battery?