



# **Electricity and Magnetism Study Guide**

# Along with the definitions from the vocabulary sheet, you will need to know the following information:

- 1. Conductors and insulators;
- 2. Basic circuits (open/closed and parallel/series);
- 3. Static electricity;
- 4. The ability of electrical energy to be changed into heat, light, and mechanical energy;
- 5. Simple electromagnets and magnetism; and
- 6. Historical contributions of Benjamin Franklin, Michael Faraday, and Thomas Edison.

#### Study Questions:

#### Static Electricity

- What kind of charge does an object have if it has more negative particles than positive? (negative)
- 2. How is static electricity made? (by rubbing certain materials together)
- 3. What is an example of the discharge of static electricity in nature? (lightning)
- What will happen when two objects, both with positive charges, come near each other? (They will repel.)

#### **Current Electricity**

- 5. How many paths does a series circuit have? (one)
- 6. What kind of circuit has more than one path? (parallel circuit)
- 7. In a series circuit, if one bulb burns out, will the other bulbs light? (no)
- 8. What kind of circuit allows the movement of electric energy? (closed circuit)
- 9. What kind of circuit stops/prevents the movement of electric energy? (open circuit)
- What kinds of energy can electric energy be changed into? (heat, light, and mechanical energy)
- Electrical energy moves through materials that are good \_\_\_\_\_\_. (conductors)
- 12. Name a good conductor. (metals such as copper)
- Electrical energy does not move through materials that are called \_\_\_\_\_\_.
  (insulators)
- 14. Name a good insulator. (rubber, plastic, wood)

#### Magnets

- 15. Where is a bar magnet's pull the strongest? (at both poles)
- 16. What poles attract each other? (opposite)

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