



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

1. 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)
4. 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)
10. What kinds of energy can electric energy be changed into? (heat, light, and mechanical energy)
11. Electrical energy moves through materials that are good _____. (conductors)
12. Name a good conductor. (metals such as copper)
13. 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)

Magnetism And Its Use Study Guide

John D. Cutnell, Kenneth W. Johnson



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