

## Electricity and Magnetism Review Questions for Test

1. Which of these materials will conduct electricity? Circle: eraser, toothpick, steel, copper, skin, chalk, trees, aluminum.
2. Draw a D-cell. Label the negative and positive ends.
3. Which direction do electrons flow in a circuit?
4. What are the two contact points on a lightbulb? Draw a bulb with arrows pointing to them.
5. Draw two d-cells in parallel with a wire and a light bulb. Do it in a way that will allow the bulb to shine.
6. Draw two D-cells in parallel with a wire and a light bulb. Do it in a way that will NOT allow the bulb to shine.
7. Which of these circuits will shine bright? Medium? Not at all?
8. Draw a way to light a bulb with a D-cell, an aluminum foil ribbon, and a bulb.
9. Draw a way that will NOT light a bulb.
10. In what ways are conductors alike?
11. In what ways are insulators alike?
12. What is the difference between series circuits and parallel circuits?
13. You have a Christmas tree with a string of lights. When one bulb goes out, they all go out. What type of circuit is this?
14. Name three places in your home which use magnets.
15. A black rock with a shiny surface made of iron and oxygen is called \_\_\_\_\_.
16. Explain the “poles” of a magnet. If you were able to chop a bar magnet in half, what would happen to the poles?
17. Explain how magnets are attracted to each other, and how they repel each other.
18. How are magnets and electricity alike?