

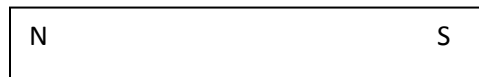
Electromagnetism

Name: _____

Quiz #4

All questions below are based on the labs and discussions that have occurred in class so far, as well as the handouts.

1. Name the units for the following: (for example, current is measured in: _____) Do not give the symbol for the unit, but write out the full name.
 - a. Current:
 - b. Voltage:
 - c. Resistance:
 - d. Power:
2. Draw a picture of the magnetic field lines for the magnet below (include at least 6 lines)



3. Name two things that are similar between the electric and magnetic forces.
4. Name two things that are different between the electric and magnetic forces.

5. Draw a picture of the field around the wire below which is carrying current as indicated:



6. If I increase the resistance of a device while keeping the current constant, is the power that the device uses increased or decreased or does it stay the same?
7. Why won't magnets attract all materials?

Extra Credit:

8. A bird lands on a bare high-voltage power line through which much current is running. Does the bird become fried chicken or is it fine? In either case, explain WHY.