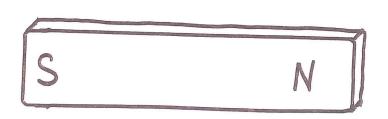
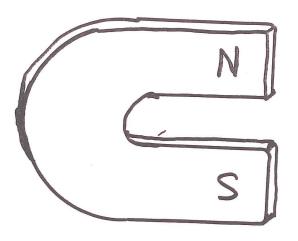
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MAGNETISM STUDY SHEET

Each of the following questions represents a concept discussed in class. Further information can be found in Chapters 19-20 of the text.

- 1. State the rule for magnetic attraction and repulsion.
- 2. List the 3 categories of magnetism found in various materials:
- 3. List the 4 elements that can be made into permanent magnets:
- 4. How can you make a temporary magnet? How does it differ from a permanent magnet?
- 5. Can a magnet ever have just one pole? Explain what happens to a magnet cut in two.
- 6. Each electron in a piece of iron is like a tiny magnet (domain theory), but the iron as a whole is not a magnet. Explain how this is possible.
- 7. What is the Curie Point? Why will heating or dropping a magnet weaken it?
- 8. Explain how a motor or generator works in terms of electric and magnetic field interaction.
- 9. What is Lenz's Law? How does it demonstrate conservation of energy?
- 10. On the back of this sheet, draw the magnetic field (flux) lines for the 4 configurations shown. Be sure to draw the field lines drawing arrows showing direction of the field.





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