

Chapter 14 Vocabulary

Name _____

Complete the following statements by writing the correct term in the space provided.

1. The magnetic force of a magnet is strongest at the . _____
2. The magnetic region around a magnet is called its . _____
3. Microscopic magnetic regions in magnets are called . _____
4. When all of the domains in a material are arranged in the same direction, the material becomes a(n) . _____
5. A device that takes advantage of the earth's magnetic field and is used to determine direction is a(n) _____
6. A device made by placing a bar of soft iron inside a wire coil is called a(n). _____
7. The process of inducing a current by moving a magnetic field through a wire coil is called _____
8. What is a magnetic pole?

9. In the space provided, draw the magnetic field of a bar magnet. Label the poles.

10. How can a piece of iron become magnetized?

11. What happens if a bar magnet is allowed to move freely at the end of a string? What can you infer about the earth from the behavior of the magnet?

11. Predict what will happen if the iron bars in Figure 1 are brought near one another.

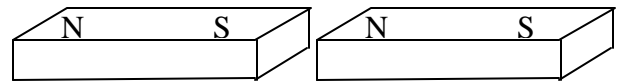


Figure 1 Two Bar Magnets

12. Predict what will happen if the iron bars in Figure 2 are brought near one another.

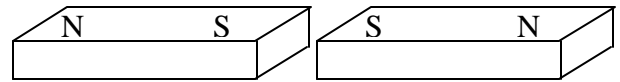


Figure 2 Two Bar Magnets

13. How can a compass, wires, and a dry cell be used to show that electricity produces magnetism?

14. Explain how to use a dry cell, an iron nail, and a coil of wire to make a magnet that can be turned on and off.