Chapter 19 Reading/Study Guide

1. Magnets are used in\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Super conducting magnets are used in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. How can maglev trains provide a better ride?
2. Like poles \_\_\_\_\_\_\_\_\_\_\_\_\_each other and unlike poles\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_attract each other.
3. No matter how many times a magnet is cut it still has a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_.
4. Define magnetic domain:
5. Describe how a piece of iron can become permanently magnetized.

1. How can a magnet loose its magnetism?
2. Why is a magnet described as hard or soft?
3. What is an example of a soft magnetic material?
4. What is an example of a hard magnetic material?
5. Define magnetic field:
6. What do the lines represent in a magnetic field?
7. What is magnetic flux?
8. What is the mathematical formula for magnetic flux?
9. What is the magnetic declination?
10. What do the initials MRI represent?
11. Why are MRIs safer than CAT Scans?
12. What type of atom does the MRI cause its nuclei to line up?
13. What type of tissues are MRI generally used with?
14. What are some drawbacks of MRI’s?