

Magnetic Field Activity

Before beginning this activity read the information located at:

Wikipedia Geomagnetic Reversal

http://en.wikipedia.org/wiki/Geomagnetic_reversal

Wikipedia Magnetite

<http://en.wikipedia.org/wiki/Magnetite>

Wikipedia Curie Point

http://en.wikipedia.org/wiki/Curie_point

Wikipedia Ferromagnetism

<http://en.wikipedia.org/wiki/Ferromagnetism>

Magnet Man

<http://www.coolmagnetman.com/magindex.htm>

Magnets in Motion

<http://www.coolmagnetman.com/magmotion.htm>

Experiment with the magnets provided, then, with your teammates, answer the following questions:

1. Which ends of the magnets stick together? Which do not?
2. How do the iron filings “behave” when exposed to a magnet?
3. Draw a picture of the pattern created by the iron filings.
4. List 5 specific, magnetic items in the classroom.
5. List 5 specific non-magnetic items in the classroom.
6. What mineral behaves like a small magnet?

7. What evidence do geologists utilize to determine the direction of Earth's magnetic field through time?

8. What happens to a magnetic object when it reaches its Curie temperature?

9. What is ferromagnetism?

10. Answer one of the questions on the Magnet Man site and state which question you answered.

11. Experiment with some of the additional magnetic devices provided by your instructor. Describe which one you selected, how it worked, and how the magnets moved in relation to each other.