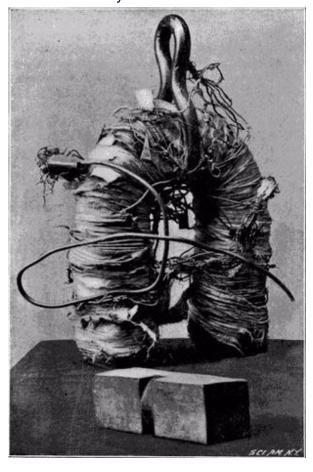
## Magnetism

by ReadWorks



electromagnet by scientist Joseph Henry in the 1830s

Has anyone ever told you that you have a magnetic personality? Well, if someone ever says that to you, thank him or her. It is a compliment. Having a magnetic personality means that people are drawn to you, just like magnets.

Magnetism is the force that electric currents exert on other electric currents. This force can be created by the motion of electrons in the atoms of certain materials, which are called magnets. The force may also be produced when an electric current flows through a coil of wire, called an *electromagnet*. In either case, the force can cause an attraction or a repulsion of two magnets. It may pull them together or push them apart.

Some objects are natural magnets. The planet Earth is a gigantic magnet. So are all of the planets in our solar system, as well as their moons and the sun. Because of their magnetism, the planets rotate around the sun (the strongest magnet). The moons (the weakest magnets) orbit around the planets. Certain rocks and minerals are natural magnets, too.

Magnets are also in living things. Animals like dolphins and pigeons have extremely small magnets in their bodies. Scientists believe they can sense the magnetism in the earth. They use the magnetism to find their way when traveling, especially for long distances.

Name:	Date:
<b>1.</b> A good e	example of someone with a magnetic personality is
A. a cri	minal.
B. a bu	s driver.
C. a T\	/ talk show host.
D. an e	electrician.
2. Which of	the following is not a quality found in magnets?
A. Mag	nets are sometimes attracted to each other.
B. Mag	nets have an electrical charge.
C. Som	netimes magnets repel each other.
D. Mag	gnets are made of plastic.
3. Which of	the following is the most powerful magnet?
A. The	Earth
B. The	Moon
C. Mars	S
D. The	Sun
<b>4.</b> How do t	the animals in this passage use magnets?
A. to ha	ang up pictures on the refrigerator
B. as a	n alternate power source
C. to fiç	ght each other
D. to fir	nd their way around
<b>5.</b> Why wou	uld telling a person that they have a magnetic personality be a compliment?
A. Peop	ple are attracted to that person.
B. Peop	ple are repulsed by that person.
C. That	t person is good with directions.
D. That	t person thinks the earth revolves around them.

6. What is the author's purpose in writing this passage?

7. What are two ways that magnetism is	produced?
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8.	The question	below is an	incomplete	sentence.	Choose the	e word that	t best c	completes
th	e sentence.							

The planets in our solar system rotate around the sun \_\_\_\_\_ the moons orbit around the planets.

- A. since
- B. while
- C. because
- D. so
- 9. Answer the following question based on the sentence below.

Dolphins and pigeons have extremely small magnets in their body to help find their way when traveling.

In the sentence, the phrase to help find their way when traveling best answers which question?

- A. Who?
- B. What?
- C. Where?
- D. Why?
- 10. Vocabulary Word: compliment: something good said about someone.

Use the vocabulary word in a sentence

- 1. A good example of someone with a magnetic personality is
  - A. a criminal.
  - B. a bus driver.
  - C. a TV talk show host.
  - D. an electrician.
- 2. Which of the following is not a quality found in magnets?
  - A. Magnets are sometimes attracted to each other.
  - B. Magnets have an electrical charge.
  - C. Sometimes magnets repel each other.
  - D. Magnets are made of plastic.
- **3.** Which of the following is the most powerful magnet?
  - A. The Earth
  - B. The Moon
  - C. Mars
  - D. The Sun
- 4. How do the animals in this passage use magnets?
  - A. to hang up pictures on the refrigerator
  - B. as an alternate power source
  - C. to fight each other
  - D. to find their way around
- 5. Why would telling a person that they have a magnetic personality be a compliment?
  - A. People are attracted to that person.
  - B. People are repulsed by that person.
  - C. That person is good with directions.
  - D. That person thinks the earth revolves around them.
- 6. What is the author's purpose in writing this passage?

Answers may vary but should include that the author's purpose is to

inform the reader about magnets. The author is teaching the reader about how magnets work and giving examples of natural magnets.

7. What are two ways that magnetism is produced?

According to paragraph 2, magnetism is a force that is produced by the motion of electrons in the atoms of magnets or when an electric current flows through a coil of wire, called an electromagnet.

**8.** The question below is an incomplete sentence. Choose the word that best completes the sentence.

The planets in our solar system rotate around the sun \_\_\_\_\_ the moons orbit around the planets.

- A. since
- B. while
- C. because
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- 9. Answer the following question based on the sentence below.

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