

Magnetism ▪ *Guided Reading and Study***What Is Magnetism?**

This section describes the properties of a magnet and explains how magnetic poles interact. The section also describes the shape of a magnetic field.

Use Target Reading Skills

Before you read, look at the headings and visuals to see what this section is about. Then write what you know about magnetism on the lines below. As you read, write what you learn.

What You Know
1. Magnets stick to refrigerators.
2. _____
3. _____
4. _____

What You Learned
1. _____ _____
2. _____ _____
3. _____ _____
4. _____ _____

Properties of Magnets

1. What is a magnet?

Magnetism ▪ *Guided Reading and Study*

What is Magnetism? *(continued)*

2. Circle the letter of the mineral in rocks that is magnetic.
 - a. magnesia
 - b. polaris
 - c. magnetite
 - d. iron
3. The attraction or repulsion of magnetic materials is called _____.
4. Is the following sentence true or false? Magnetic rocks are known as lodestones. _____
5. What are three properties that magnets have?
 - a. _____

 - b. _____

 - c. _____

Magnetic Poles

6. Any magnet, no matter what its shape, has two ends, each one called a(n) _____.
7. Circle the letter of each sentence that is true about magnetic poles.
 - a. One pole of a magnet will point north.
 - b. Both the north and the south pole always point north.
 - c. Two north poles make up a pair of unlike, or opposite, poles.
 - d. The pole that points south is labeled the south pole.
8. Where is the magnetic effect of a magnet strongest?

9. How are magnetic poles labeled?

Magnetism ▪ *Guided Reading and Study*

10. Complete the table below by writing whether the magnets in each pair described in the first column will repel or attract each other.

Magnetic Attraction	
Situation	Repel or Attract?
Two south poles are brought together.	a.
A north pole is brought to a south pole.	b.
Two north poles are brought together.	c.
A south pole is brought to a north pole.	d.

11. What is magnetic force?

12. Is the following sentence true or false? Any material that exerts magnetic force is considered a magnet.

Magnetic Fields

13. The region of magnetic force around a magnet is known as its _____.

14. What are the lines called that map out the magnetic field around a magnet?

15. Draw a magnetic field around the illustration of the bar magnet shown here.



16. When the magnetic fields of two or more magnets overlap, what is the result?
