



Name:

Date:

Student Exploration: Magnetism

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: attract, bar magnet, ferromagnetic, magnetize, north pole, repel, south pole

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. What happens when you place two magnets close together?

They either attract or repel

2. What objects do magnets stick to? Make a list.

Metal, Nickel, and Iron

3. What do these objects have in common?

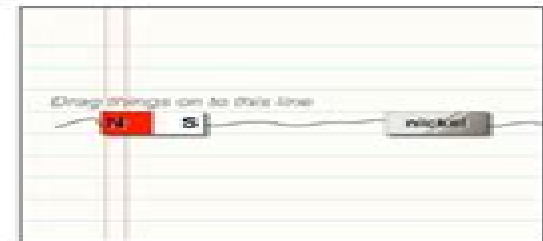
They are all found in the g.c.c

Gizmo Warm-up: What is attracted to magnets?

A **bar magnet** is a simple rectangular magnet. If you hang a bar magnet by a string, the **north pole** (N) of the magnet will tend to point north while the **south pole** (S) of the magnet points south.

1. Look at the materials at the bottom of the Gizmo. Which ones do you think will stick to a bar magnet?

Iron



2. **Ferromagnetic** materials are strongly attracted to magnets. Drag a bar magnet and the piece of nickel onto the scribbled line. Press **Play** (▶).

A. Is nickel ferromagnetic?

yes

B. How do you know?

they can become magnets

Student Exploration Magnetism Gizmo Answer Key

CO Houle



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