



Directed Reading for
Content Mastery

Section 1 ■ Magnetism

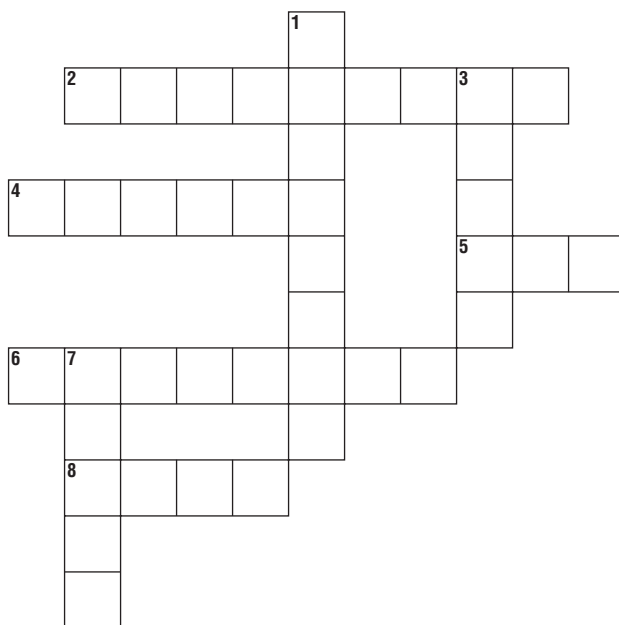
Directions: Use the following terms to complete the crossword puzzle.

north
two

domain
magnetic

opposite
permanent

like
poles



Across

2. Type of magnet that keeps its magnetic properties for a long time
4. Group of aligned atoms that behaves like a magnet
5. Number of poles of a horseshoe magnet
6. Type of magnetic poles that attract one another
8. Type of magnetic poles that repel one another

Down

1. Type of force that becomes stronger as two magnets are brought closer together
3. Direction a compass needle points
7. Parts of a magnet where the magnetic force is strongest

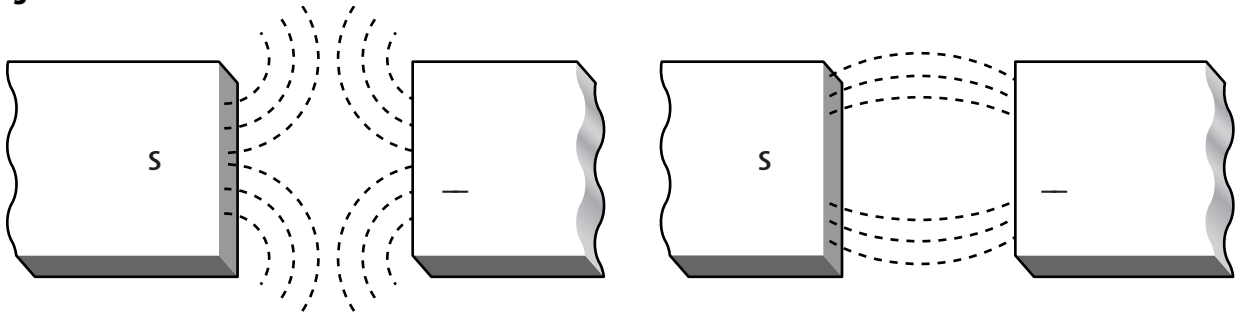
SECTION 1

Reinforcement

Magnetism

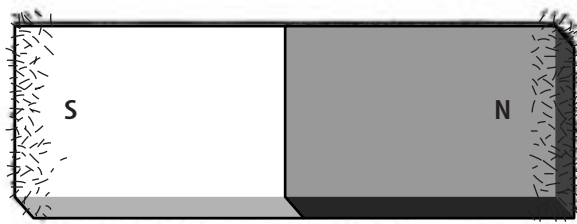
Directions: Complete the diagrams below as indicated and answer the questions.

Figure 1



1. The lines in Figure 1 show magnetic forces acting between two pairs of bar magnets. Label the unlabeled poles of each magnet with *N* for north and *S* for south, between unlike poles.
 2. What generalization can you make about the reaction between like poles? Between unlike poles?
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3. On Figure 2, draw the lines of force around the bar magnet as they would appear if you sprinkled iron filings around the magnet.

Figure 2



4. Where are most of the iron filings located? Most spread out?
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5. What can you infer about the strength of a magnetic field based upon the position of the iron filings?
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6. What three materials can be used to make a magnet such as the ones shown above?
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