

## 21-1 What is a magnet?

### Lesson Review

Determine if each item listed will be attracted to a magnet or not affected by a magnet. Write *attracted* or *not affected* in the spaces provided.

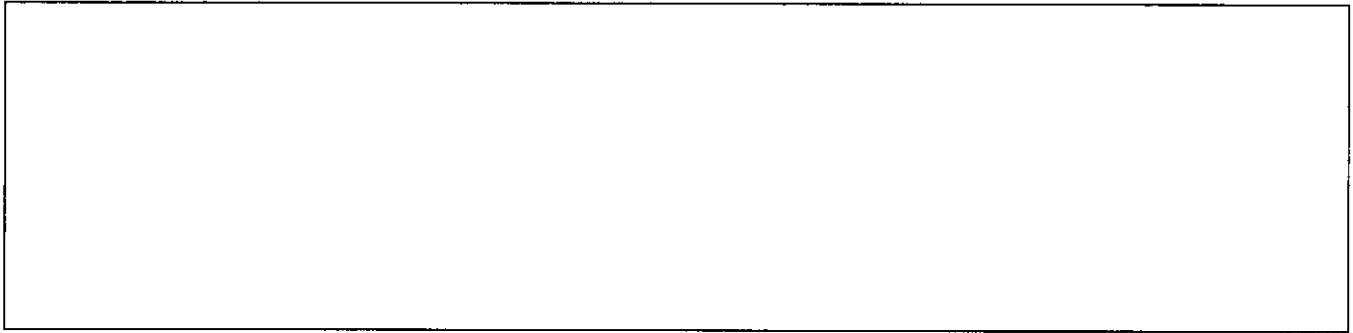
- \_\_\_\_\_ 1. wooden chair
- \_\_\_\_\_ 2. iron kettle
- \_\_\_\_\_ 3. paper clip
- \_\_\_\_\_ 4. milk carton
- \_\_\_\_\_ 5. glass jar
- \_\_\_\_\_ 6. refrigerator
- \_\_\_\_\_ 7. bar of cobalt
- \_\_\_\_\_ 8. nickel coin
- \_\_\_\_\_ 9. metal filing cabinet
- \_\_\_\_\_ 10. window glass

### Skill Challenge

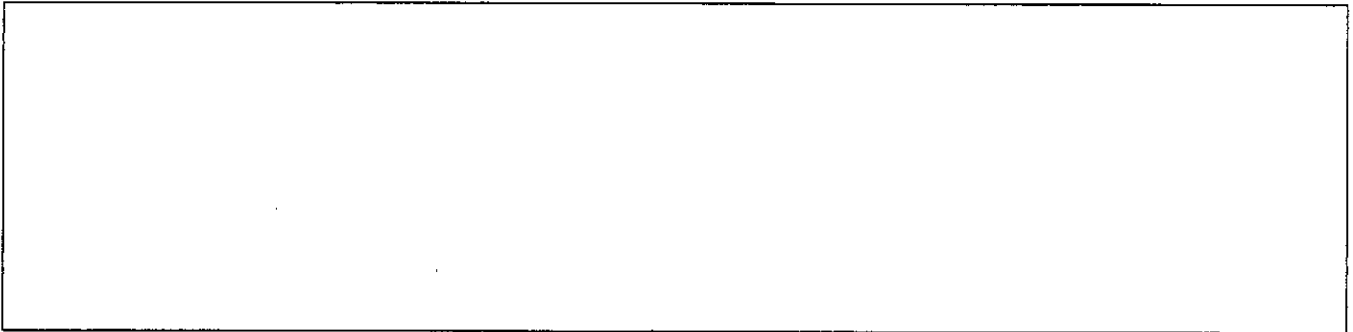
**Skills:** analyzing, diagramming, identifying

Complete the following.

1. Draw two magnets that are repelling each other. Be sure to label the poles of the magnets.



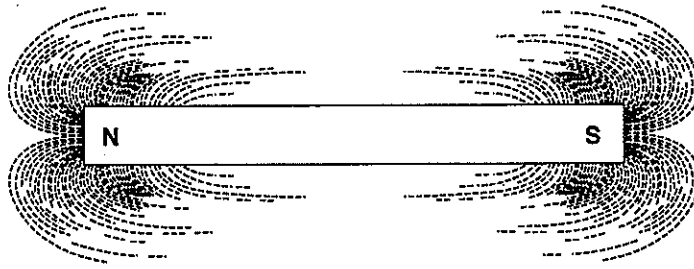
2. Draw two magnets that are attracting each other. Be sure to label the poles of each magnet.



# 21-2 What causes magnetism?

## Lesson Review

Use the diagram to answer the following questions.



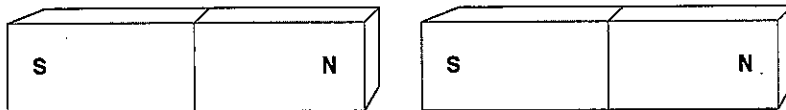
1. What do the lines around the magnet represent? \_\_\_\_\_
2. What is the pattern made by the lines called? \_\_\_\_\_
3. Where is this magnet the strongest? \_\_\_\_\_
4. Where are the lines closest together? \_\_\_\_\_
5. What do the letters *N* and *S* stand for? \_\_\_\_\_

## Skill Challenge

**Skills:** *interpreting diagrams, analyzing*

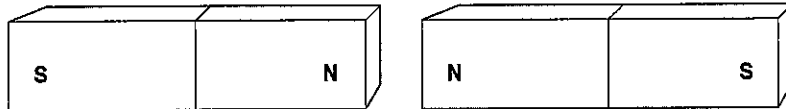
Are the poles of the magnets in the following diagrams attracting or repelling each other? Write *attracting* or *repelling* in the space provided below each diagram. Then, draw the magnetic lines of force between the poles of each magnet.

1.



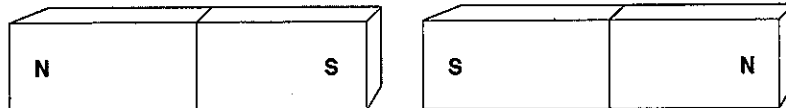
\_\_\_\_\_

2.



\_\_\_\_\_

3.



\_\_\_\_\_