



# A Magnet's Ends

## Procedure

1. **Collaborate** Work with a partner. Tie one end of a string around the middle of a bar magnet. Then tie the other end of the string around the middle of a meterstick. Balance the metersitck on top of two chairs as shown in your book.

2. **Observe** Bring one end of a bar magnet near one end of the hanging magnet. Notice which poles of the magnets are near each other. Record your observations below. Bring the other end of the bar magnet near the same end of the hanging magnet. Try other arrangements and record all results.

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3. **Infer** Use masking tape to cover the marked poles of the free magnet. Have a classmate label one taped pole X and the other Y. Then repeat step 2. Use the results to infer which taped pole is north and which is south.

4. **Record your inferences.** Then remove the tape and check your inferences.

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Name \_\_\_\_\_ Date \_\_\_\_\_

## Conclusion

1. **Observe** Which ends of the magnets attract each other? Which ends push away, or **repel**, each other?

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2. **Conclude** What statement can you make about a magnet's poles?

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**Experiment** Experiment with horseshoe, disc, or ring magnets. Note which parts of two similar magnets attract and which parts repel each other. Use the results to help you infer where the poles of the magnets are.

Guided Inquiry