

Polar Opposites

Procedure

1. **Collaborate** Work with a partner. Tie one end of a string around the middle of a bar magnet. Tape the other end of the string to the edge of a table so the magnet hangs above the floor.

2. **Predict** Predict what will happen when you bring the north pole of a second magnet near the north pole of the hanging magnet. Record your prediction below.

3. **Experiment** Test your prediction. Record your observations below.

4. **Predict** Predict what will happen when you bring the south pole of the second magnet near the north pole of the hanging magnet. Record your prediction below.

5. **Experiment** Test your prediction. Record your observations below.

Conclusion

Write the answers to the questions below.

1. **Analyze Data** What happened when you brought the two north poles near each other? What happened when you brought the north and south poles near each other?

2. **Predict** What do you think would happen if you brought the two south poles of the magnets near each other?

Investigate More!

Research Do research in the library or on the Internet to find a way that magnets are used to create motion. Write a short paragraph describing what you learn.

