## Mini Lab Make Your Own Compass

## Procedure 조 🍄 茄 🔀

- 1. Read the procedure and safety information, and complete the lab form.
- 2. Cut off the bottom of a plastic foam cup to make a foam disk.
- **3.** Magnetize a **sewing needle** by continuously stroking the needle in the same direction with a **magnet** for 1 min. **WARNING:** *Use care when handling a sharp needle.*
- 4. Tape the needle to the center of the foam disk.
- 5. Fill a plate with water and float the disk, needle-side up, in the water.
- 6. Bring the magnet close to the foam disk.

## Analysis

1. Discuss Where did the needle point when you placed your compass in the water? Explain.

**2. Explain** How did the needle and disk move when the magnet was brought near them? Explain why this occurred.