

Magnets at a Distance

| Type of Magnet | Does it attract a paper clip? | Magnetic Force Strength Test (cm) | |
|------------------|-------------------------------|-----------------------------------|---------------|
| Cow magnet | Y N | Touch _____ | Release _____ |
| Electromagnet | Y N | Touch _____ | Release _____ |
| Horseshoe magnet | Y N | Touch _____ | Release _____ |
| Large bar magnet | Y N | Touch _____ | Release _____ |
| Ring magnet | Y N | Touch _____ | Release _____ |
| Small bar magnet | Y N | Touch _____ | Release _____ |

Magnets at a Distance

1. How are the magnets you tested alike? How are they different?

Alike

Different

2. You moved a magnet close to a stationary magnet. What happened? Include force diagrams in your answer.

3. You need to define solution goals for the trash problem. Investigating forces might help. Ask a testable question about an effect of a force that acts on a piece of trash without touching the trash.