

Name _____

Attracting Knowledge: Magnetic Force vs. Gravitational and Electric Forces

Short Answer Key

1. The poles of a magnet are the north and south ends. Like poles repel each other, while opposite poles attract.
2. Gravitational force weakens as objects move farther apart, following the inverse square law.
3. The strength of electric force between charged particles depends on the magnitude of the charges and inversely on the square of the distance between them.
4. Examples may include refrigerator magnets, magnetic locks, or magnetic resonance imaging (MRI) machines.
5. Magnetic force has a limited range around magnets, gravitational force acts over infinite distances, and electric force also operates over vast distances but depends on charges and distance.

