

Name _____

Mysteries of Magnetism: The Power of Attraction

Short Answer Key

1. A permanent magnet retains its magnetic properties without external influence, while an electromagnet is temporary and generates a magnetic field when an electric current flows through a wire coil.
2. A compass consists of a magnetized needle that aligns itself with Earth's magnetic field. The needle's north pole points toward the magnetic North Pole.
3. An example of a common item using magnetism is a refrigerator door seal with a magnetic closure. It keeps the door tightly shut to maintain a cold environment inside.
4. A magnetic field is an area around a magnet where its influence can be detected. It relates to the behavior of magnets by showing the direction and strength of the magnetic force.
5. Magnetism plays a role in animal navigation, such as migratory birds using Earth's magnetic field for orientation. It also contributes to the formation of magnetic rocks and minerals in Earth's crust.

