

Name _____

Unveiling Earth's Magnetic Mysteries: The Generation of the Earth's Magnetic Field

Multiple Choice Questions

1. What is the Earth's magnetic field primarily composed of?
 - a) Copper and zinc
 - b) Iron and nickel
 - c) Gold and silver
 - d) Aluminum and titanium

2. Which phenomenon generates the Earth's magnetic field?
 - a) Solar radiation
 - b) Geothermal heat
 - c) Dynamo effect
 - d) Cosmic rays

3. Why do compass needles point north?
 - a) They are attracted to the North Pole.
 - b) They align with the Earth's magnetic field.
 - c) They are controlled by a central magnet.
 - d) They are influenced by the sun's magnetic field.

4. What protective role does the Earth's magnetic field play?
 - a) Shielding against earthquakes
 - b) Deflecting harmful solar radiation
 - c) Generating electricity
 - d) Regulating Earth's temperature

5. What causes the auroras to occur near the Earth's poles?
 - a) Earth's magnetic field attracts sunlight.
 - b) Charged particles from the sun collide with gases in the atmosphere.
 - c) Earth's magnetic field emits colorful lights.
 - d) The Earth's core generates natural light.

