

Name _____

The Sun's Magnetic Magic: How it Influences Earth

Multiple Choice Questions

1. What creates the Sun's magnetic field?
 - a) Nuclear fusion reactions
 - b) Swirling charged particles in the core
 - c) Earth's magnetic field
 - d) Solar flares

2. What is the 11-year cycle of the Sun's magnetic field called?
 - a) Solar wind cycle
 - b) Magnetosphere cycle
 - c) Solar cycle
 - d) Aurora cycle

3. What protects Earth from most of the harmful particles in the solar wind?
 - a) Earth's atmosphere
 - b) Earth's oceans
 - c) Earth's magnetosphere
 - d) Earth's ionosphere

4. What causes the beautiful auroras in the polar skies?
 - a) Interaction of solar wind particles with Earth's magnetosphere
 - b) Earth's magnetic storms
 - c) Nuclear reactions in the Sun's core
 - d) Pollution in the Earth's atmosphere

5. How can the Sun's magnetic activity affect GPS systems and communication?
 - a) By creating hurricanes
 - b) By changing Earth's weather patterns
 - c) By disrupting radio signals and the ionosphere
 - d) By causing earthquakes

