

Name _____

The Solar Wind: A Cosmic Breeze and Its Impact on Space Weather

Multiple Choice Questions

1. What is the solar wind primarily composed of?
 - a) Helium and oxygen
 - b) Electrons and protons
 - c) Hydrogen and nitrogen
 - d) Carbon and silicon

2. What causes the solar wind to flow outward from the Sun?
 - a) The Sun's gravity
 - b) Solar flares
 - c) The intense heat in the Sun's corona
 - d) Earth's magnetic field

3. What beautiful natural phenomena are created by the solar wind's interaction with Earth's magnetic field?
 - a) Tornadoes
 - b) Hurricanes
 - c) Auroras
 - d) Thunderstorms

4. What potential hazards can geomagnetic storms, triggered by the solar wind, pose to Earth?
 - a) Increased rainfall
 - b) Harm to aquatic life
 - c) Interference with radio and GPS signals, power grid damage, and astronaut safety risks
 - d) Forest fires

5. What is the main factor influencing the variability of the solar wind?
 - a) Earth's rotation
 - b) The Moon's phases
 - c) The Sun's 11-year cycle of magnetic activity
 - d) Solar eclipses

