

Name _____

The Mighty Sun: Our Stellar Neighbor

Multiple Choice Questions

1. What are the primary gases that make up the Sun's composition?
 - A) Oxygen and nitrogen
 - B) Hydrogen and helium
 - C) Carbon and oxygen
 - D) Nitrogen and helium

2. Which layer of the Sun is responsible for the nuclear fusion process?
 - A) Radiative zone
 - B) Core
 - C) Photosphere
 - D) Convective zone

3. What is the approximate temperature at the core of the Sun?
 - A) 15 degrees Celsius
 - B) 1,500 degrees Celsius
 - C) 15 million degrees Celsius
 - D) 150 million degrees Celsius

4. What are sunspots, and why are they important?
 - A) Bright areas on the Sun's surface caused by nuclear fusion
 - B) Cooler areas on the Sun's surface associated with magnetic activity
 - C) Eruptions of energy and particles from the Sun
 - D) Small asteroids that orbit the Sun

5. How does the Sun's energy impact life on Earth?
 - A) It powers the Sun's fusion process.
 - B) It causes earthquakes and volcanic eruptions.
 - C) It provides light and heat necessary for life.
 - D) It creates sunspots on the Sun's surface.

