

Name:

☀ **Pre-Assessment on the Sun** ☀

Instructions: Please answer the following questions to the best of your ability. The pre-assessment is not a graded quiz but a way to see what you already know about the Sun. Good luck!

- 1.) **True or False:** The Sun is the closest star to Earth.
- 2.) What type of star is the Sun?
 - A. Red Giant
 - B. White Dwarf
 - C. Yellow Dwarf
 - D. Neutron Star
- 3.) The Sun's location is found at the _____ of the Milky Way galaxy.
- 4.) **Choose one:** Is the Sun's age the same as planet Earth, the same as when the Big Bang occurred in our universe, or is the Sun relatively young compared to the formation of Earth?
- 5.) **True or False:** The Sun moves around the Earth.
- 6.) Which layer of the Sun do we see from Earth?
 - A. Core
 - B. Radiative Zone
 - C. Convective Zone
 - D. Photosphere
- 7.) The process that powers the Sun and produces a tremendous amount of energy is called nuclear _____.
- 8.) **Short Answer:** What is a solar flare, and what can it affect on Earth?
- 9.) **True or False:** The Sun is expected to remain in its current state for about another 5 billion years.
- 10.) Which of the following elements is most abundant in the Sun?
 - A. Oxygen
 - B. Helium
 - C. Hydrogen
 - D. Carbon

- 11.) The dark spots occasionally visible on the Sun's surface, which are cooler than the surrounding areas, are called _____.
- 12.) **Short Answer:** Explain why the Sun is vital for life on Earth.
- 13.) **True or False:** A total solar eclipse occurs when the Moon is between the Earth and the Sun.
- 14.) How long does light from the Sun take to reach Earth?
A. 8 minutes and 20 seconds
B. 1 hour
C. 24 hours
D. Instantaneously
- 15.) The outermost layer of the Sun's atmosphere, visible during a total solar eclipse, is called the _____.

Please review your answers before submitting them, and remember, this is just to see what you already know. There's no pressure to get everything right!