



The Sun's Features

The Sun is our closest star and a vital part of life on Earth. Answer the following multiple-choice questions to test your knowledge of its structure, energy, and effects.

1. What process powers the Sun and produces its energy?
A. Nuclear fusion
B. Combustion
C. Radioactive decay
D. Magnetism
2. What two elements are most common in the Sun?
A. Hydrogen and Helium
B. Oxygen and Carbon
C. Iron and Nickel
D. Nitrogen and Argon
3. Which part of the Sun do we see as its "surface"?
A. Corona
B. Chromosphere
C. Photosphere
D. Convective Zone
4. What are dark, cooler regions on the Sun caused by magnetic activity?
A. Prominences
B. Solar Flares
C. Sunspots
D. Auroras
5. Which outer layer of the Sun can be seen during a total solar eclipse?
A. Radiative Zone
B. Core
C. Photosphere
D. Corona
6. How long does it take light from the Sun to reach Earth?
A. 8 seconds
B. 8 minutes
C. 8 hours
D. 8 days
7. What is the average surface temperature of the Sun?
A. 550°C
B. 5,500°C
C. 55,000°C
D. 550,000°C
8. What effect can solar flares and solar wind have on Earth?
A. Cause earthquakes
B. Change Earth's orbit
C. Produce volcanoes
D. Create auroras

Reflection Question: In 2-3 sentences, explain why studying the Sun's features is important for life on Earth.