

The Solar System ▪ *Reading/Notetaking Guide***The Sun** (pp. 545–550)

This section describes the sun's interior and its atmosphere. It also describes features on and above the sun's surface.

Use Target Reading Skills

As you read, complete the outline about the sun. Use the red headings for the main ideas and the blue headings for subtopics.

The Sun
I. Energy From the Sun
A. Nuclear Fusion
B. Forces in Balance
II.
A.
B.
C.
III.
A.
B.
C.
IV.
A.
B.
C.
D.

Energy from the Sun (pp. 546–547)

1. The sun's energy comes from a process called _____.

2. What occurs in nuclear fusion in the sun?

3. Where does nuclear fusion occur in the sun?

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The Sun's Interior (p. 547)

4. Order the layers of the sun's interior from inner layer to outer layer.

5. Which part of the sun's interior is a region of tightly packed gas where energy is transferred mainly in the form of electromagnetic radiation?

The Sun's Atmosphere (p. 548)

6. Order the layers of the sun's atmosphere from inner layer to outer layer.

7. Which layer do you see when you look at a typical image of the sun?

8. How can you identify the chromosphere during a total solar eclipse?

9. Why can you see a corona during a total solar eclipse?

10. The corona sends out a stream of electrically charged particles called the _____.

Features on the Sun (pp. 548–550)

11. Name three features on or above the sun's surface.
 - a. _____
 - b. _____
 - c. _____

Match the feature on the sun with its description.

Feature	Description
_____ 12. sunspots	a. Areas of gas on the sun's surface that are cooler than the gases around them
_____ 13. prominences	b. Large eruptions of gas out into space
_____ 14. solar flares	c. Reddish loops of gas that link different parts of sunspot regions
15. When solar flares increase solar wind from the corona, what do they cause in Earth's upper atmosphere? _____	