

SECTION

THE SUN IS OUR LOCAL STAR.

4.1 Reading Study Guide

BIG IDEA Our Sun is one of billions of stars in one of billions of galaxies in the universe.

KEY CONCEPT The Sun is our local star.

Review

The Sun provides light in the solar system.

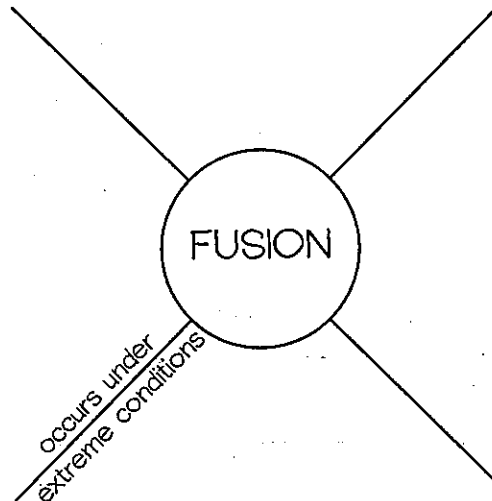
Take Notes**I. The Sun produces energy from hydrogen. (p. 115)**

1. Fill in the main idea and detail notes for the main ideas shown.

Main Idea	Detail Notes
1. Astronomers have been able to study the Sun in greater detail than other stars.	1. The Sun is the only star in our solar system. 1. The Sun is much closer to Earth than other stars.
2. The Sun is far larger than any of the planets.	2.
3. The Sun consists mostly of hydrogen gas.	3. 3.

II. Energy flows through the Sun's layers. (p. 116)**A. The Sun's Interior (p. 116)**

2. Fill in the description wheel diagram for *fusion*.

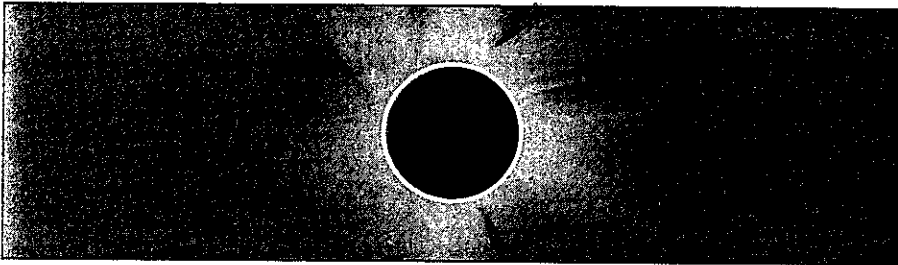


3. How does energy flow through the Sun's interior?

B. The Sun's Atmosphere (p. 116)

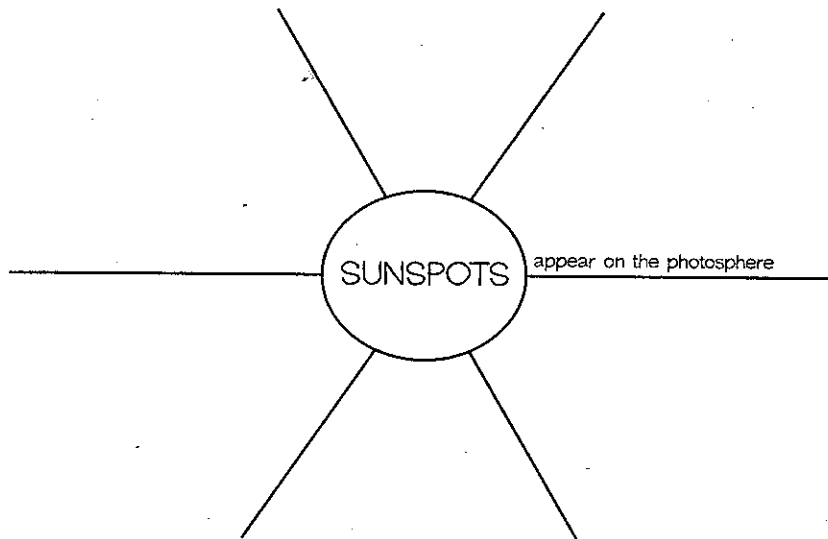
4. Why is the photosphere often called the Sun's surface?

5. The sketch below shows the Sun during a total solar eclipse. Label the corona in the drawing. Why is the corona not normally visible?



C. Features on the Sun (p. 118)

6. Fill in the description wheel diagram for *sunspots*.



D. Solar Wind (p. 119)

7. What protects Earth from solar wind?

8. What happens when particles from the solar wind enter the upper atmosphere?
