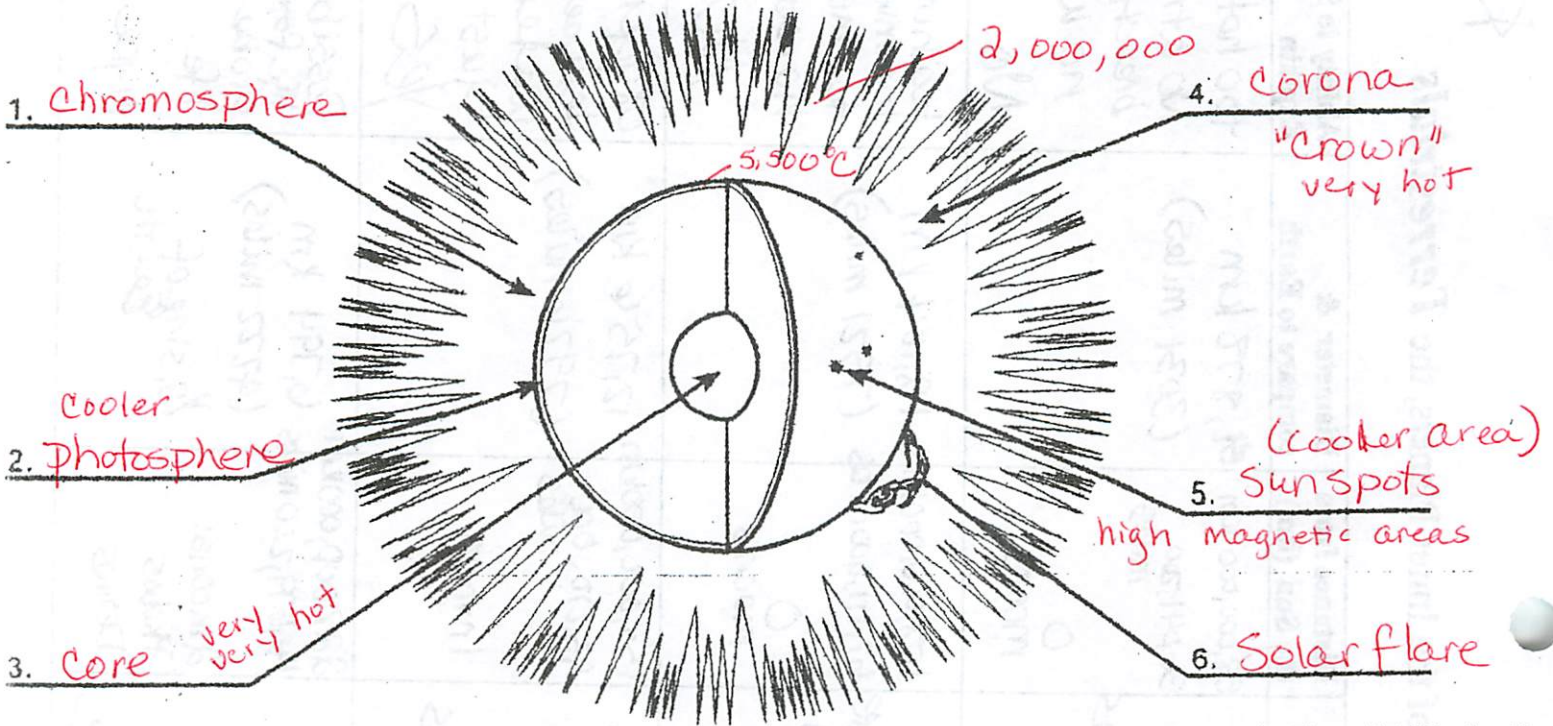


1 AU = astronomical unit = the distance between the Sun + Earth

The Sun

Name 92,960,000 miles
149,600,000 km

► Understanding Main Ideas - color and label using pg. 563



◆ Building Vocabulary - use pages 561-564

Match each term with its description by writing the letter of the correct description on the line beside the term.

f 7. solar flare

h 8. core

b 9. chromosphere

d 10. sunspot

c 11. corona

i 12. nuclear fusion

a 13. photosphere

g 14. solar wind

e 15. prominence

a. the layer of the sun's atmosphere that makes light

b. the layer of the sun's atmosphere that has a reddish glow

c. the layer of the sun's atmosphere that looks like a halo during an eclipse

d. areas of gas on the sun that are cooler than the gases around them

e. reddish loops of gas that link parts of sunspot regions

f. explosions that occur when the loops in sunspot regions suddenly connect

g. a stream of particles produced by the corona

h. the center of the sun

i. the joining of hydrogen atoms to form helium


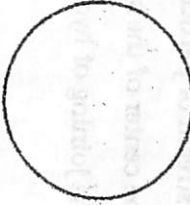

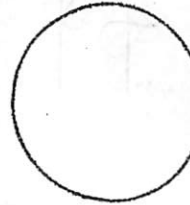
Where Can We Live?

°C = celsius or centigrade
- = negative



Characteristics of the Inner Planets, the *Terrestrials*

avg = average

Planet-draw/color details	Planet surface & Temperature	Planet Atmosphere	Distance from the Sun (km)	Diameter & compare to Earth	Ability to Support Life? Explain
Mercury 	1 maximum: 467°C minimum: -173°C	little or trace amount of atmosphere mainly sodium gas	58,000,000 km 36,041,200 miles 0 moons	4,878 km (3031 miles)	too hot/cold No atmosphere to breathe no water No
Venus 	2 avg temp 457°C	thick CO ₂ 's greater pressure CO ₂ (carbon dioxide) retrograde backwards rotation	108,000,000 km 67,111,200 miles 0 moons	12,104 km (7521 miles)	too hot too much pressure too much CO ₂ no water No
Earth 	3 avg temp 15°C	78% Nitrogen 21% Oxygen <1% CO ₂ + other gases	150,000,000 km 93,210,000 miles 1 moon	12,756 km (7926 miles)	Oxygen temperature water "just right for life" Yes
Mars 	4 -143°C to +17°C	Has seasons like Earth Tilted axis mainly CO ₂ 1% pressure of Earth	228,000,000 km 141,679,200 miles 2 moons: Phobos, Deimos	6,794 km (4222 miles) 1/2 size of Earth	Possible simple "bacteria" life forms: Curiosity probe mission to find life. maybe OK pressure OK temp no oxygen frozen water

5/2