Name _____ Class _____ Date _____

Skills Worksheet

# Directed Reading A

## Section: The Sun: Our Very Own Star

_____ 1. The sun is a large ball of gas made mostly of
a. oxygen and carbon.
b. hydrogen and helium.
c. nitrogen and sulfur.
d. carbon dioxide and oxygen.

### THE STRUCTURE OF THE SUN

**Match the correct description with the correct term. Write the letter in the space provided.**

_____ 2. the sun's outer atmosphere
_____ 3. the thin region below the sun's corona
_____ 4. the part of the sun that can be seen from Earth
_____ 5. the region of the sun where gases circulate
_____ 6. the center of the sun
_____ 7. a very dense region of the sun

a. chromosphere
b. core
c. radiative zone
d. convection zone
e. corona
f. photosphere

### ENERGY PRODUCTION IN THE SUN

_____ 8. Early scientists thought that the sun produced its energy by
a. orbiting.
b. expanding.
c. collapsing forward.
d. burning fuel.

_____ 9. Scientists later thought that energy to heat the sun was released from
a. gravity.
b. pressure.
c. photons.
d. kinetic energy.

_____10. Albert Einstein showed that matter and energy are
a. the same.
b. opposites.
c. interchanging.
d. interchangeable.

_____11. What formula did Einstein use to show the relationship between matter and energy?
a. $E = mc$
b. $E = mc^2$
c. $M = m$
d. $M = m^2$