

Skills Worksheet

**Directed Reading A**

**Section: The Sun: Our Very Own Star**

- \_\_\_\_\_ 1. The sun is a large ball of gas made mostly of
- hydrogen and helium.
  - hydrogen and helium.
  - helium and oxygen.
  - oxygen, helium, and hydrogen.

**THE STRUCTURE OF THE SUN**

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

- |  |                    |
|--|--------------------|
| _____ 1. the sun's outer atmosphere                      | a. chromosphere    |
| _____ 2. the hot region below the outer corona           | b. core            |
| _____ 3. the part of the sun that can be seen from Earth | c. radiative zone  |
| _____ 4. the region of the sun where gases vibrate       | d. convective zone |
| _____ 5. the center of the sun                           | e. corona          |
| _____ 6. a very dense region of the sun                  | f. photosphere     |

**ENERGY PRODUCTION IN THE SUN**

- \_\_\_\_\_ 7. Early scientists thought that the sun produced its energy by
- colliding.
  - expanding.
  - collapsing inward.
  - burning fuel.
- \_\_\_\_\_ 8. Scientists later thought that energy to heat the sun was released from
- gravity.
  - pressure.
  - glitches.
  - nuclear energy.
- \_\_\_\_\_ 9. Albert Einstein showed that matter and energy are
- the same.
  - opposites.
  - interchangeable.
  - unrelated.
- \_\_\_\_\_ 10. What formula did Einstein use to show the relationship between matter and energy?
- $E = mc^2$
  - $E = m^2$
  - $E = m$
  - $E = m^3$