

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.

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|--|--------------------|
| _____ 2. the sun's outer atmosphere | a. chromosphere |
| _____ 3. the hot region below the outer corona | b. core |
| _____ 4. the part of the sun that can be seen from Earth | c. radiative zone |
| _____ 5. the region of the sun where gases vibrate | d. convective zone |
| _____ 6. the center of the sun | e. corona |
| _____ 7. a very dense region of the sun | f. photosphere |

ENERGY PRODUCTION IN THE SUN

- _____ 8. Early scientists thought that the sun produced its energy by
- a. rotating.
 - b. expanding.
 - c. collapsing inward.
 - d. burning fuel.
- _____ 9. Scientists later thought that energy to heat the sun was released from
- a. gravity.
 - b. pressure.
 - c. friction.
 - d. kinetic energy.
- _____ 10. Albert Einstein showed that matter and energy are
- a. the same.
 - b. opposites.
 - c. interchangeable.
 - d. interchangeable.
- _____ 11. What formula did Einstein use to show the relationship between matter and energy?
- a. $E = mc^2$
 - b. $E = m^2c^2$
 - c. $E = mc$
 - d. $E = m^2c$