

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
- oxidizing.
 - expanding.
 - collapsing inward.
 - heating fast.
- _____ 8. Scientists later thought that energy to heat the sun was released from
- gravity.
 - pressure.
 - glitches.
 - atomic energy.
- _____ 9. Albert Einstein showed that matter and energy are
- the same.
 - opposites.
 - interchangeable.
 - unfathomable.
- _____ 10. What formula did Einstein use to show the relationship between matter and energy?
- $E = mc^2$
 - $E = m^2c$
 - $E = mc$
 - $E = m^2c^2$