

Skills Worksheet

Directed Reading B

Section: Cell Energy (pp. 148–151)

1. Why do cells need energy?

2. Where do plant cells get their energy?

3. Where do many animal cells get the energy they need?

FROM SUN TO CELL

_____ 4. Where does almost all of the energy that fuels life come from?

- a. Earth
- b. gasoline
- c. plants
- d. the sun

5. Plants are able to change the sun's energy into food through a process called _____.

6. The molecules in plant cells that absorb light energy are called _____.

7. Plants get their green color from _____.

8. Where are chloroplasts found?

9. What is glucose?

10. Why is glucose important to a plant cell?

11. Photosynthesis produces _____ and _____.

Directed Reading B *continued*

GETTING ENERGY FROM FOOD

- 12.** Cells use _____ to break down food using oxygen.
- 13.** Many cells are able to get energy without using oxygen through a process called _____.
- 14.** Cellular respiration is a(n) _____ process that happens in cells.
- 15.** Describe what takes place during cellular respiration in complex organisms.
- _____
- _____
- 16.** What does your body do with the energy released during cellular respiration?
- _____
- _____
- 17.** Adenosine triphosphate, also called ATP, supplies _____ that fuels cell activities.
- 18.** Cellular respiration in the cells of eukaryotes, such as plants and animals, takes place in the _____ inside the cell.
- 19.** During photosynthesis, plant cells use carbon dioxide to make glucose and release oxygen. How is this different from cellular respiration?
- _____
- _____
- _____
- 20.** Why do you get a burning sensation in your muscles during strenuous exercise?
- _____
- _____
- _____