



Name _____ Class _____ Date _____

Skills Worksheet

Directed Reading

Chapter 2
Section 1

Section: Exchange with the Environment

1. How does the movement of materials across the cell membrane relate to an organism's survival?

Complete
Sentences

WHAT IS DIFFUSION?

2. The movement of particles from areas of high concentration to areas of low concentration is called _____.

3. The fluids that surround and fill a cell are made mostly of _____.

4. Water is made up of particles called _____.

5. The diffusion of water through a semipermeable membrane is called _____.

6. Describe what happens in osmosis.

7. Why is osmosis important to cell functions?

8. Describe what would happen if you put red blood cells into a salty solution.

9. Describe what happens to a wilted plant when it is watered.

Diffusion of Water

Read the description. Then, draw a line from the dot next to each description to the matching answer.

10. The fluids in an organism's cells are made mostly of this. ●
11. what particles that make up water are called ●
12. what the diffusion of water is called ●
13. Water moves through this during diffusion. ●
14. What does osmosis bring into the cells that helps wilted plant cells?
- a. energy
b. water
c. sunlight
d. heat
- a. osmosis
b. cell membrane
c. water
d. molecules

MOVING SMALL PARTICLES

15. How do small particles cross a cell membrane?
- a. through roadways
b. through channels
c. through holes
d. through pores
16. How do particles move from an area of low concentration to an area of high concentration?
- a. active transport
b. passive transport
c. osmosis
d. diffusion
17. How do particles move from high to low concentration?
- a. active transport
b. passive transport
c. transportation
d. leading

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Read the words in the box. Read the sentences. Fill in each blank with the word or phrase that best completes the sentence.

energy and raw materials	wastes
cell membrane	healthy

1. An organism must be able to take in _____.
2. Materials move in and out of a cell through its _____.
3. Taking in raw materials and getting rid of wastes keep an organism _____.
4. An organism has to get rid of _____.

WHAT IS DIFFUSION?

Circle the letter of the best answer for each question.

5. What is everything, including gelatin and dye, made up of?
- a. energy
b. water
c. heat
d. tiny moving particles
6. Where will particles move when they are crowded?
- a. where it is warmer
b. where it is cooler
c. where it is less crowded
d. where it is cleaner