

Name	Class	Date

Skills Worksheet)

# **Directed Reading B**

# **Section: Exchange with the Environment**

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

energy and raw materials cell membrane

wastes

healthy

1. An organism must be able to take in

Energy : RAW MAKRIAIS

2. Materials move in and out of a cell through its

Cell Membrane.

3. Taking in energy and getting rid of wastes keep an organism

Healthy

4. An organism has to get rid of \_\_\_\_\_\_\_\_\_\_

Wastes

## 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

c. heat

**b.** water

- ditiny moving particles
- **6.** Where will particles move when they are crowded?
  - a. where it is warmer
- where it is less crowded
- **b.** where it is cooler
- d. where it is cleaner
- **7.** What do we call particles moving from crowded areas to less crowded areas?
  - diffusion

c. traveling

b. flowing

d. exchanging

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<u>Circle the letter</u> of the best a	nswer for each ques	stion.
8. What don't cells need for	r diffusion?	
<b>a.</b> food	<b>c</b> . energy	
<b>b.</b> water	<b>d.</b> heat	
Diffusion of Water		
Read the description. Then, $\underline{d}$ description to the matching $a$		dot next to each
<b>9.</b> The fluids in an organism are made mostly of this.	n's cells • 🔔	<b>a.</b> osmosis
<b>10.</b> What particles that make water are called.	e up	<b>b.</b> cell membrane
<b>11.</b> What the diffusion of wa called.	eter is	<ul><li>c. water</li><li>d. molecules</li></ul>
<b>12.</b> Water moves through thi during diffusion.	s • C	
The Cell and Osmosis <u>Circle the letter</u> of the best a	nswer for each ques	tion.
13. What is made up of wate	r, salts, sugars, and	other particles?
a. iced tea	c. molecules	
<b>b.</b> cell membranes	<b>d</b> . plasma	
14. What helps keep plasma	in balance?	
a. cold	c. osmosis	
<b>b.</b> heat	<b>d.</b> energy	
15. What does osmosis bring	into the cells that h	nelps wilted plant cells?
a. energy		
<b>b.</b> water		
<b>c.</b> sunlight		
<b>d.</b> heat		

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#### **MOVING SMALL PARTICLES**

Circle the letter of the best answer for each question.

- 16. How do small particles cross a cell membrane?
  - a. through roadways
  - **b.** through channels
  - c. through holes
  - d. through pores
- **17.** How do particles move from low concentration to high concentration?
  - active transport
  - **b.** passive transport
  - c. osmosis
  - d. diffusion
- 18. How do particles move from high to low concentration?
  - a. active transport
  - **b.** passive transport
    - c. osmosis
  - d. diffusion
- 19. What is a sac formed from pieces of cell membrane called?
  - a. endocytosis
  - **b.** vesicle
    - c. cell
  - d. particle

#### **MOVING LARGE PARTICLES**

Use the figure below to answer questions 20 and 21. <u>Circle the letter</u> of the best answer for each question.

Figure A

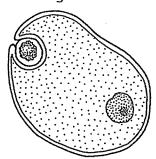


Figure B

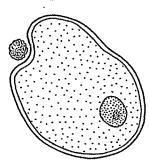
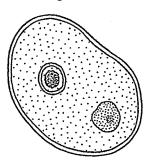


Figure C



- **20.** Look at the figure. A cell encloses a large particle in B, A, C order. What is the name of the process?
  - a. exocytosis
  - **b.** endocytosis
  - c. osmosis
  - **d.** diffusion
- **21.** Look at the figure. A cell encloses a large particle in C, A, B order. What is the name of the process?
  - a. exocytosis
  - b. endocytosis
  - c. osmosis
  - d. diffusion

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Section: Cell Energy Read the words in the box. Read the sentences. Fill in each blank with the word or phrase that best completes the sentence.				
sun	food	reproduce		
	1. Plant cells get their energy from the			
2. Many animals get the energy they need from				
3. All cells need energy to live, grow, and				
reproduce.				
FROM SUN TO CELL				

the sun	food	
energy	photosynthesis	

- 4. Almost all of the energy used by living things comes from \_\_\_\_\_\_\_.
  5. Plants change energy from the sun into \_\_\_\_\_\_\_.
- 6. The process that plants use to make food is called <u>photosynthesis</u>
  7. Plants use the food they make for <u>Chergy</u>

to live, grow, and reproduce.

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	otosynthesis cle the letter of the best answ	er for each question.		
	8. In photosynthesis, what two things do plants use with sunlight to make food?			
	a. water and oxygen	water and carbor	n dioxide	
	<b>b.</b> water and sugar	<b>d.</b> water and salt		
9	9. What food do plants make for themselves?			
	a. salt	<b>c.</b> chlorophyll		
	<b>b.</b> glucose	<b>d.</b> heat		
-	cellular respiration ferme	ntation '		
	cellular respiration ferme	ntation		
10.	Breaking down food for energy Cellular Respura		led	
11. Breaking down food for energy without using oxygen is called				
	lular Respiration <u>le the letter</u> of the best answe	r for each question.		
12.	How do most complex organi	sms get their energy?		
	<b>a.</b> through breathing	<b>c.</b> through sleeping		
	<b>b.</b> through eating	d through cellular re	espiration	
13.	In cellular respiration, what d from food?	o cells use to produce	energy	
	a. water	<b>6.</b> oxygen		
	<b>b.</b> sunlight	<b>d.</b> carbon dioxide		

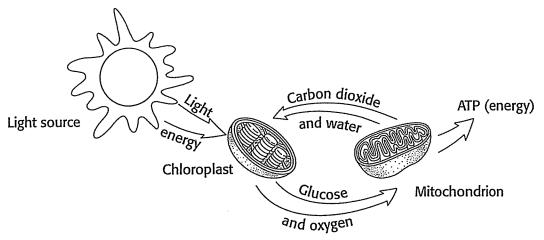
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## Directed Reading B continued

# Circle the letter of the best answer for each question.

- 14. Which are broken down and released in cellular respiration?
  - a. water, carbon dioxide, and energy
  - b. water, energy, and oxygen
  - water, food, and carbon dioxide
  - d. water, oxygen, and food

Use the figure below to answer questions 15, 16, and 17. <u>Circle the letter</u> of the best answer for each question.



- 15. Look at the figure. What two processes does it show?
  - a. photosynthesis and breathing
  - **b.** breathing and growing
  - c. growing and cellular respiration
  - photosynthesis and cellular respiration
- **16.** Look at the figure. Where does cellular respiration take place in the figure?
  - (a.) mitochondrion
- c. fluids
- **b** cell membrane
- d. chloroplast
- 17. Look at the figure. Besides energy, what else is released during cellular respiration?
  - a carbon dioxide and oxygen c. carbon dioxide and food
  - **b.** carbon dioxide and glucose **d.** carbon dioxide and water