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## Chapter 1 Review Cells

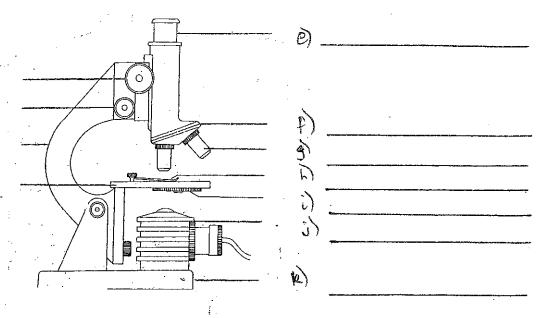
Name:	
Bl:	Date:

- 1. The following is a list of things...circle the ones that are characteristic of ALL living things. (4)
  - a) need energy
  - b) grow
  - c) made of stone
  - d) release waste
  - e) respond to the environment
  - f) breath
  - g) have eyes

2. State the "characteristic of living things" that each example demonstrates then come up with another example. (see page 5) (6)

My Example	Characteristic of Living Thing	Your Example
A spawning salmon releases eggs	·	·
My dog urinates (on telephone poles)		
Our skin is many tiny circular things packed together		
In the fall, when it gets cool, leaves turn brown and fall off of trees		
My hampster (Snoopy) lived only two years		
Before soccer practice, I ate a snack		-

3. Label each part of the microscope indicated on the diagram. (5)



<ul> <li>5. a) Using low power, the diameter of the field of view is about 4 mm. Estimate the length of the organism shown in the diagram. (1)</li> <li>b) If you changed the lens to medium power, why wouldn't you see the organism? (1)</li> </ul>	
b) If you changed the lens to medium power, why wouldn't you see the organism? (1)	
6. Label the cell structures indicated on the diagram below. (11)	
a)	
9	
7. Is the cell above a plant cell or animal cell? How do you know? (2)	
8. Describe 4 ways that plant and animal cells differ. (4) (make a chart!)	
Plant Animal	

	based on the description. (14)	
d) makes energy		
e) stores water, waste,	, and nutrients	
	oundary around a cell	
,		
k) puts finishing touch	ies on molecules and packages them	up
l) is like a tail		
•	round the call either to	
10. For each container, (3	) .	
i) state where the wate	r concentration is higher (inside the	cell or outside) w= water
<li>ii) draw an arrow to sh</li>	ow the direction water molecules w	ill move S = Sugar
iii) state whether the co	ell will grow, shrink, or stay the sam	e.
1		
( W _ 5		
$(\omega)$		
	$(\omega_{\zeta})$	(www)
3	SW	
	b)	c)
11. What is diffusion? (1)		
11. What is diffusion? (1)		
11. What is diffusion? (1)		
11. What is diffusion? (1)		
		•
<ul><li>11. What is diffusion? (1)</li><li>12. What is osmosis? (1)</li></ul>		
	b) controls the cell; li c) makes sugar from s d) makes energy e) stores water, waste f) is a thick, rigid bou g) transports proteins h) is a thin, flexible be i) cleans the cell j) is a fluid that "fills s k) puts finishing touch l) is like a tail m) is like little hairs an help it move or outside of the ce n) is all the informatio  10. For each container, (3 i) state where the wate ii) draw an arrow to sh iii) state whether the ce	e) stores water, waste, and nutrients f) is a thick, rigid boundary around a cell g) transports proteins through the cell h) is a thin, flexible boundary around a cell i) cleans the cell j) is a fluid that "fills up the cell k) puts finishing touches on molecules and packages them l) is like a tail m) is like little hairs around the cell either to help it move or to move stuff on the outside of the cell n) is all the information for the cell's activities  10. For each container, (3) i) state where the water concentration is higher (inside the ii) draw an arrow to show the direction water molecules wiii) state whether the cell will grow, shrink, or stay the sam

14. What is turgor pressure? How does it help plants? (see page 27) (2)

15. How can you make a limp, floppy carrot crisp and edible again?! How does it work? (2)