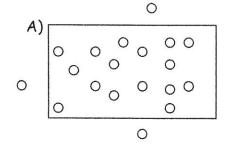
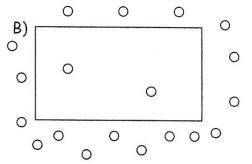
Name	Date	Class
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## Diffusion and Osmosis Worksheet

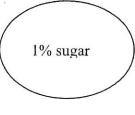
How are the molecules moving in the examples below (1-9)? Write OSMOSIS or DIFFUSION.

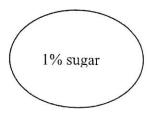
- 1. The student sitting next to you just came from gym class and forgot to shower and you can tell.
- 2. After sitting in the bathtub for hours, your fingers start to look like prunes.
- 3. The girl sitting two rows ahead of you put on too much perfume this morning.
- 4. One way to get rid of slugs in your garden is to sprinkle salt on them, so they shrivel up.
- 5. Yum! Something smells good. The neighbors are cooking on the grill!
- 6. Gargling with salt water when you have a sore throat causes your swollen throat cells to shrink and feel better.
- 7. Oxygen molecules move from the air sacs in the lungs across the cell membranes into the blood \_\_\_\_\_
- 8. Robert sprays water on the veggies in the produce section to "plump them up".\_\_\_\_\_
- 9. You put raisins in a glass of water and they plump up. \_\_\_\_\_
- 10. Use arrows to indicate the direction of diffusion in each case: O is a molecule that can pass through the cell membrane. is a cell membrane.





11. For each of the situations below use an arrow to indicate the net movement <u>of sugar</u> into or out of the cell. (Assume that the sugar molecules can pass through the cell membrane in each case.)





5% sugar

1% sugar

3% sugar

1% sugar

12. The cell membrane is made of a phospholipid bi-layers.  13. The cell membrane is	anniger, desired.		
14. Diffusion always causes particles to move from a region of concentration			
to a region of concentration.			
15. Does a cell use energy when molecules diffuse in or out of the cell down the concentration			
gradient?			