

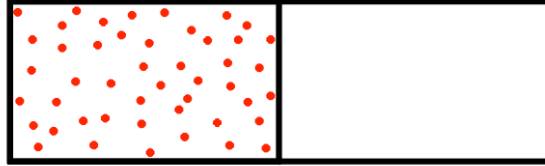
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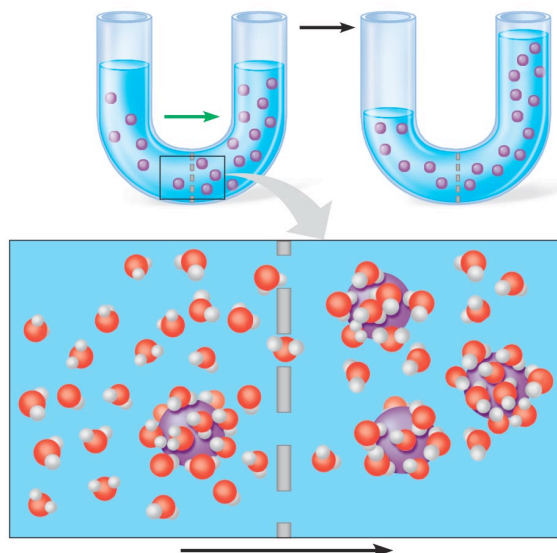
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## Cell Transport

1. Draw an arrow on the diagram below to show the ways in which the solutes (dots) will move.



2. Name examples of what kinds of solutes these dots may represent.
3. You can smell food when molecules from the food enter your nose. Explain how the molecules get from the food to your nose.
4. Diffusion is the \_\_\_\_\_ movement of particles from a \_\_\_\_\_ concentration to a \_\_\_\_\_ concentration until they are spread out \_\_\_\_\_.
5. Moths emit chemicals called pheromones to attract a mate. Which process is responsible for the distribution of these chemicals through the air?
6. Which side (left or right) contains starch solution with the highest concentration?



7. When you take a bath the cells in the skin of your fingers are immersed in water.
- Your skin cells have a semi-permeable membrane. Does osmosis cause water to pass from the cells in your fingers into the bath, or from the bath into the cells in your finger?
  - What will happen to the size of the skin cells in your fingers?
  - Suggest why your fingers go wrinkly in the bath.
  - Would your fingers go more or less wrinkly in the sea? Explain your answer.
8. Which of the following is NOT a type of passive transport?
- Diffusion
  - Osmosis
  - Endocytosis
  - Facilitated diffusion
9. Chamber A contains 40% helium and Chamber B contains 20% helium. Chambers are connected by a tube the molecules are free to cross. Which of the following will occur?
- some helium will move from chamber A to chamber B
  - some helium will move from chamber B to chamber A
  - helium will remain concentrated in chamber A
  - all of the helium will move into chamber B
10. What will happen to an animal cell placed in a salt water solution?
- The cell will shrink
  - The cell will expand
  - The cell will burst
  - The cell will shrink and then expand and then shrink again
11. An animal cell placed in a hypotonic solution will:
- Die
  - Take on water
  - Lose water
  - Divide
12. Active transport requires:
- Osmosis
  - Energy
  - A hypertonic solution
  - Mrs. Reese to the rescue