

Biology K/H: Cell Membrane, Transport and Solutions Review

1. What is the function of the cell membrane? (What processes does it regulate?)
2. Draw a cell membrane and include channels and pumps
3. What 3 biomolecules are within the cell membrane? What are each of the monomers?
4. Draw a phospholipid and label the 2 parts.
5. Which part is charged? Why?
6. Which part is not charged? Why?
7. What is the function of a protein channel?
8. What is passive and active transport?
9. Types of active transport:
  - a. Endocytosis
    - I. Phagocytosis
    - II. Pinocytosis
  - b. Exocytosis
10. What is facilitated diffusion?
11. Name 3 types of solutions and what would happen to a cell if placed in each solution.
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12. What is diffusion?
13. Why does diffusion occur?
14. What is osmosis? Give an example.
15. At equilibrium, which way do the molecules move?
16. Why do molecules continue to move across a membrane at equilibrium?
17. What does it mean to be selectively permeable?
18. What is Cell Specialization? (What process makes more cells?)
19. What are Stem Cells?
20. Why is a cells surface area to volume ratio important?