

Cell Transport Review Worksheet

Complete the table by checking the correct column for each statement:

Statement	Isotonic solution	Hypotonic solution	Hypertonic solution
Causes a cell to swell		x	
Doesn't change the shape of a cell	x		
Causes osmosis	x	x	x
Causes a cell to shrink			x

Match the term with its correct description:

- | | |
|--------------------------|---------------------|
| a. energy | e. active transport |
| b. facilitated diffusion | f. exocytosis |
| c. endocytosis | g. carrier protein |
| d. passive transport | h. channel protein |

- H Transport protein that provides a tube-like opening in the plasma membrane through which particles can diffuse
- A Is used during active transport but not passive transport
- C Process by which a cell takes in material by forming a vacuole around it
- D Particle movement from an area of higher concentration to an area of lower concentration
- F Process by which a cell expels wastes from a vacuole
- B A form of passive transport that uses transport proteins
- E Particle movement from an area of lower concentration to an area of higher concentration

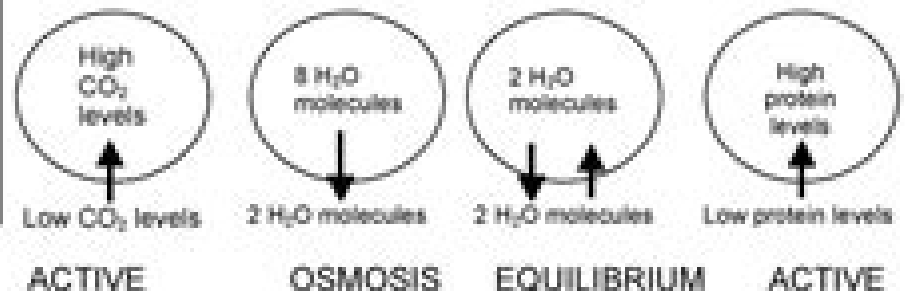
- G Transport protein that changes shape when a particle binds with it

Match the term with its correct description:

- | | |
|----------------------|----------------|
| a. transport protein | e. osmosis |
| b. active transport | f. endocytosis |
| c. diffusion | g. exocytosis |
| d. passive transport | h. equilibrium |

- E The diffusion of water through a cell membrane
- D The movement of substances through the cell membrane without the use of cellular energy
- A Used to help substances enter or exit the cell membrane
- B When energy is required to move materials through a cell membrane
- H When the molecules of one substance are spread evenly throughout another substance to become balanced
- G A vacuole membrane fuses (becomes a part of) the cell membrane and the contents are released
- F The cell membrane forms around another substance, for example, how the amoeba gets its food
- C When molecules move from areas of high concentration to areas of low concentration

Label the diagrams of cells using the following terms: diffusion, active transport, osmosis, equilibrium. The arrows show the direction of transport. You may use the terms more than once!



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Scott C. Dulebohn



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