

Active and Passive Transport (Worksheet)

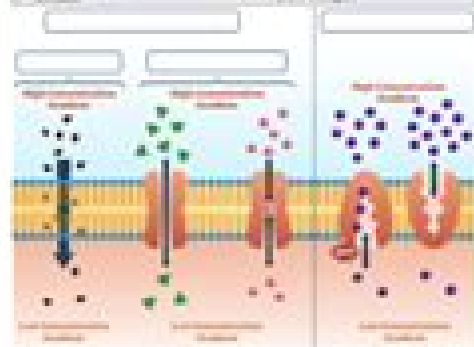
Active and Passive Transport (Worksheet)

Q1. Write 'T' or 'F' for statements in rows 1 to 5 and 'A' for statements in boxes.

- ☐ T ☐ F All cells have a cell membrane.
☐ T ☐ F All membranes are identical.
☐ T ☐ F When concentration is higher in one side of a membrane, the movement of particles stops across the cell membrane.
☐ T ☐ F A substance moving against a concentration gradient from areas of higher concentration to areas of lower concentration without the use of energy.
☐ T ☐ F Active transport does not require energy to proceed.

Q2. Put the words in the boxes in the order they would fit.

- ☐ Diffusion ☐ Active Transport
☐ Osmosis ☐ Passive Transport



Q3. Which of the following is not a type of passive transport?

- ☐ Diffusion ☐ Osmosis ☐ Facilitated Diffusion ☐ Osmosis

Q4. Which of the following substances cannot pass through the cell membrane by simple diffusion?

- ☐ Oxygen ☐ Hydrogen ☐ Carbon Dioxide ☐ Water

Q5. Which of the following statements about the cell membrane is false?

- ☐ It is made up of a phospholipid bilayer.
☐ It is selectively permeable, that allows things to enter and leave.
☐ It separates the contents of the cell from the outside world.
☐ It is the movement of particles across the cell membrane requires energy.

Q6. The diagram shows the movement of dye particles across a membrane over time. What is this?



What type of transport occurs in the diagram shown above?
☐ Facilitated Diffusion ☐ Diffusion
☐ Osmosis ☐ Endocytosis

Q7. Which one of the following terms is defined as the movement of molecules from high concentration to lower concentration through transport proteins in the cell membrane without using energy?
☐ Facilitated Diffusion ☐ Diffusion
☐ Osmosis ☐ Endocytosis

Q8. Which one of the following terms is defined as the diffusion of water through a selectively permeable membrane?

- ☐ Endocytosis ☐ Diffusion ☐ Facilitated Diffusion ☐ Osmosis

Q9. Which of the following statements about active transport is false?

- ☐ It is active transport, particles move against the concentration gradient.
☐ Energy is required for active transport.
☐ Active transport, particles move from higher concentration to lower concentration.
☐ The sodium potassium pump is an example of active transport.

Q10. Which one of the following terms is defined as the ability to maintain a stable internal condition?

- ☐ Diffusion ☐ Endocytosis ☐ Homeostasis ☐ Osmosis

Q11. Which type of transport occurs during the exchange of gases in the lungs?

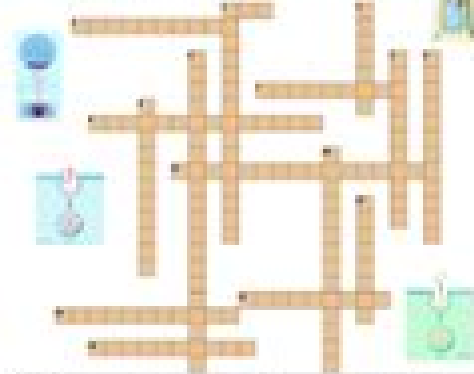
- ☐ Diffusion ☐ Endocytosis ☐ Facilitated Diffusion ☐ Osmosis

Q12. The rate of diffusion _____ as the temperature increases.

- ☐ Increases ☐ Decreases ☐ Stays the same ☐ Osmosis

Active and Passive Transport (Worksheet)

Complete the crossword puzzle.



Across	Down
1. The rate of the energy used in active transport.	1. The movement of particles through a cell membrane against the concentration gradient is using energy.
2. The solution has a higher concentration of solute.	2. The movement of particles from an area with higher concentration to an area of lower concentration.
3. The movement of molecules from an area with higher concentration to an area of lower concentration.	3. An area of concentration is where there is a high density of particles.
4. The movement of particles across the cell membrane and requires energy to cross the cell membrane.	4. An area of concentration is where there is a high density of particles.
5. The movement of particles through a cell membrane without the use of energy.	5. The movement of particles across the cell membrane and requires energy to cross the cell membrane.
6. The substance whose concentration is higher.	6. The movement of particles across the cell membrane and requires energy to cross the cell membrane.
7. The ability to maintain a stable internal condition.	7. A solution that has a higher concentration of solute.
8. The movement of particles out of the cell through a membrane and through proteins.	

Active And Passive Transport Answers

Ignacio Tinoco



Active And Passive Transport Answers:

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