

Active and Passive Transport (Worksheet)

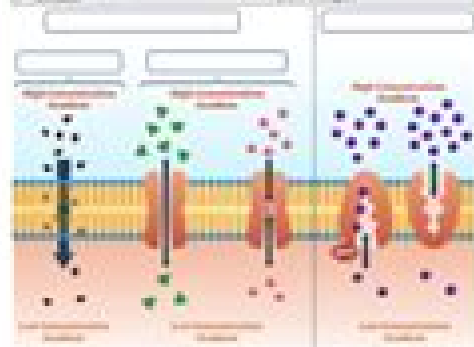
Active and Passive Transport (Worksheet)

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 in structure.
☐ T ☐ F When a substance is moved by diffusion, the movement of particles stops when the cell membrane.
☐ T ☐ F A substance transport particles along 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 correct form and label.

-



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

- ☐ Diffusion ☐ Osmosis ☐ Facilitated Diffusion ☐ Endocytosis

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 is composed of the phospholipids of the cell wall and vesicles that enter and leave the cell.
☐ 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?

- ☐ In 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 gas exchange 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 solutes.	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 example of active transport is sodium potassium pump.
4. Facilitated diffusion is a type of passive transport.	4. An example of active transport is sodium potassium pump.
5. The movement of particles through a cell membrane without the use of energy.	5. The movement of particles through a cell membrane without the use of energy.
6. The solution has a lower concentration of solutes.	6. A type of transport across the cell membrane is osmosis.
7. The ability to maintain a stable internal condition.	7. A solution that has a higher concentration of solutes.
8. The movement of particles out of the cell through a membrane and through proteins.	

Active And Passive Transport Answers

**James Trefil, Rita Ann Calvo, Kenneth
Cutler**



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