

Active and Passive Transport (Worksheet)

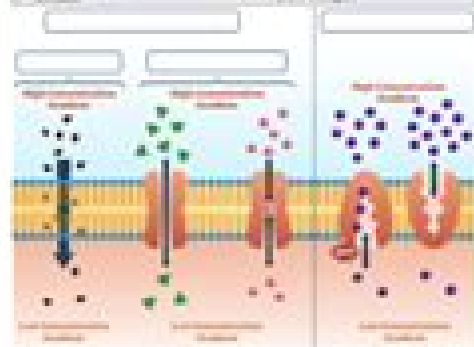
Active and Passive Transport (Worksheet)

Q1. Write T or F for the statements in rows 1 to 5 and F or T for the statements in boxes.

- ☐ 1. All cells have a cell membrane.
☐ 2. All membranes are impermeable.
☐ 3. When a substance is moved by diffusion, the movement of particles does not need the cell membrane.
☐ 4. A substance moving against a concentration gradient from areas of higher concentration to areas of lower concentration without the use of energy.
☐ 5. Active transport does not require energy to proceed.

Q2. Put the words in the boxes in the correct form and label.

- ☐ Diffusion
☐ Active Transport
☐ Osmosis
☐ Facilitated Diffusion



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

- ☐ Diffusion
☐ Facilitated Diffusion
☐ Osmosis
☐ Active Transport

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

- ☐ Oxygen
☐ Carbon Dioxide
☐ Water
☐ Glucose

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 impermeable to everything at the cell wall, which water and ions can't go.
☐ 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?

- ☐ Diffusion
☐ Osmosis
☐ Facilitated Diffusion
☐ Active Transport

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?

- ☐ Diffusion
☐ Osmosis
☐ Facilitated Diffusion
☐ Active Transport

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

- ☐ Diffusion
☐ Facilitated Diffusion
☐ Osmosis
☐ Active Transport

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.
☐ Cells use transport proteins to 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
☐ Facilitated Diffusion
☐ Osmosis
☐ Homeostasis

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

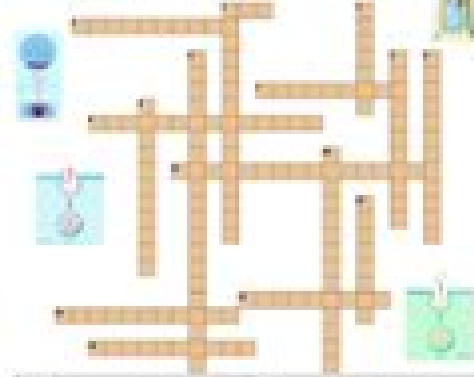
- ☐ Diffusion
☐ Facilitated Diffusion
☐ Osmosis
☐ Active Transport

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

- ☐ Increases
☐ Decreases
☐ Stays the same
☐ Doubles

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 called active .
2. The solution has a higher concentration of solute.	2. The movement of particles from an area of higher concentration to an area of lower concentration.
3. The movement of molecules from an area of higher concentration to an area of lower concentration.	3. An example of active transport is the sodium potassium pump.
4. The movement of water from an area of higher concentration to an area of lower concentration.	4. The movement of particles through a cell membrane without the use of energy.
5. The solution has a lower concentration of solute.	5. The movement of particles through a cell membrane without the use of energy.
6. The solution has a higher concentration of solute.	6. The movement of particles through a cell membrane without the use of energy.
7. The solution has a lower concentration of solute.	7. The movement of particles through a cell membrane without the use of energy.
8. The solution has a higher concentration of solute.	8. The movement of particles through a cell membrane without the use of energy.
9. The solution has a lower concentration of solute.	9. The movement of particles through a cell membrane without the use of energy.
10. The solution has a higher concentration of solute.	10. The movement of particles through a cell membrane without the use of energy.

Active And Passive Transport Answers

Thomas M. Devlin



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