

Active and Passive Transport (Worksheet)

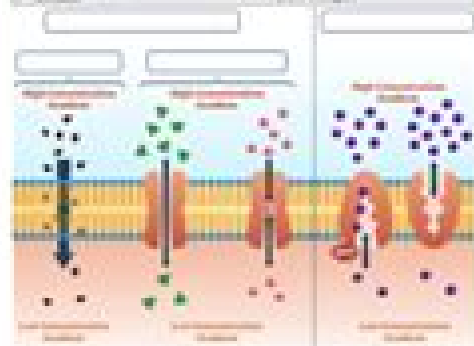
Active and Passive Transport (Worksheet)

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

- ☐ 1. All cells have a cell membrane.
☐ 2. All membranes are impermeable.
☐ 3. When concentration is higher in one side, the movement of particles stops across the cell membrane.
☐ 4. In passive transport, particles always move 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 box in blank lines in the words diagram below.

- ☐ Diffusion ☐ Active Transport
☐ Osmosis ☐ Passive Transport



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 surrounds the cytoplasm of the cell and separates what is inside from the outside.
☐ 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 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?

- ☐ Osmosis ☐ Diffusion ☐ Facilitated Diffusion ☐ Endocytosis

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.
☐ With 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 ☐ Osmosis ☐ Homeostasis ☐ Endocytosis

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

- ☐ Diffusion ☐ Osmosis ☐ Facilitated Diffusion ☐ Endocytosis

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

- ☐ Increases ☐ Decreases ☐ Stays the same

Active and Passive Transport (Crossword Puzzle)

Complete the crossword puzzle below.



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 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 area of low concentration is called hypotonic .
4. From an animal's body that allows water molecules and helps to move the cell membrane apart.	4. An area of high concentration is called hypertonic .
5. The movement of particles through a cell membrane without the use of energy.	5. The movement of particles into a cell by engulfing them with the cell membrane.
6. The substance whose concentration is lower.	6. A type of transport across the cell membrane to move the cell membrane for changing.
7. The ability to maintain a stable internal condition.	7. A solution of equal concentration is called isotonic .
8. The movement of particles out of the cell through membrane through proteins.	

Active And Passive Transport Answers

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