

Active and Passive Transport (Worksheet)

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Q1. Which of these 2 processes is energy-requiring? Explain why. (1 mark)

- Diffusion
- Active transport
- Both
- Neither

Q2. Which of the following statements is true in the context of passive transport?

- Diffusion is a passive process.
- Diffusion is an active process.
- Diffusion is a passive process that occurs from a high concentration area without the use of energy.
- Diffusion is an active process that uses high energy.

Q3. Fill in the words in the box to label areas in the diagram below.

Diffusion **Passive Transport** **Active Transport**

Q4. Which of the following is a type of passive transport?

- Diffusion
- Active transport
- Convection
- Conduction

Q5. Which of the following is NOT a type of passive transport?

- Diffusion
- Convection
- Conduction
- Active transport

Q6. Which of the following terms is different to the definition of passive transport?

- Diffusion
- Conduction
- Convection
- Conduction

Q7. Which of the following statements about passive transport is FALSE?

- Passive transport moves against the concentration gradient.
- Energy is required for passive transport.
- Passive transport moves from higher concentration to lower concentration.
- The solute concentration going to passively is proportional to the gradient.

Q8. Which one of the following terms is different to the ability to move in a fluid medium?

- Diffusion
- Conduction
- Convection
- Conduction

Q9. Which type of transport moves along the concentration gradient in the high diffusion?

- Diffusion
- Conduction
- Convection
- Conduction

Q10. The use of diffusion _____ as the simplest form of transport.

- Diffusion
- Conduction
- Convection
- Conduction

Q11. Which of the following statements about the cell membrane is FALSE?

- The fluidity of the cell membrane is due to the fluidity of the phospholipid bilayer.
- The fluidity of the cell membrane is due to the fluidity of the proteins.
- The fluidity of the cell membrane is due to the fluidity of the carbohydrates.
- The fluidity of the cell membrane is due to the fluidity of the water.

Q12. The diagram shows the movement of the solute across the membrane from left to right.

What type of transport process is this? Explain your answer.

Diffusion **Passive Transport** **Active Transport**

Q13. Which one of the following terms is opposite to the movement of molecules from high concentration to low concentration through transport across the cell membrane without using energy?

- Diffusion
- Conduction
- Convection
- Conduction

Q14. Which one of the following terms is different to the diffusion of water through a cell membrane?

- Diffusion
- Conduction
- Convection
- Conduction

Q15. Which of the following terms is different to the diffusion of water through a cell membrane?

- Diffusion
- Conduction
- Convection
- Conduction

Q16. Which of the following terms is different to the ability to move in a fluid medium?

- Diffusion
- Conduction
- Convection
- Conduction

Q17. Which of the following terms is different to the movement of molecules across the cell membrane?

- Diffusion
- Conduction
- Convection
- Conduction

Active and Passive Transport (Worksheet)

Q18. Complete the following table.

Process	Description
1. The use of energy to move a solute across the cell membrane.	1. The movement of passive transport is unaffected against the concentration gradient using energy.
2. The use of the diffusion of water.	2. The use of the diffusion with the fluid of membrane diffusion.
3. The use of a solute to move across the cell membrane.	3. The use of convection to move across the cell membrane.
4. The use of conduction to move across the cell membrane.	4. The use of conduction to move across the cell membrane.
5. The movement of passive transport is unaffected without the use of energy.	5. The movement of passive transport is unaffected without the use of energy.
6. The use of a solute to move across the cell membrane.	6. The use of a solute to move across the cell membrane.
7. The movement of passive transport is unaffected against the concentration gradient using energy.	7. The movement of passive transport is unaffected against the concentration gradient using energy.

Active And Passive Transport Answers

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

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